

CUMULATIVE ADIT LOADING, REDUCTIONS AND COSTS - MANGANESE						
(0 values = below detection limit)			2/21/2001			
			Low Flow Loading			
			Percent		Cum.Costs	
			of Total		Cumulative	
ARSG Designation			Mn value	Mn value	Adit Loading	Cumulative reductions
Basin	NEW DESCRIPTION	Site #	(grams/d)	(lbs/d)	Loading (lbs/d)	percentage x \$1000
CC	Red & Bonita			129		
CC	Gold king			86.2		
CC	American Tunnel			66		
MC	Paradise Adit-whitebed	M16	8891.2	19.6	13.4%	13.4%
CC	Mogul			19.1		
UA abv	Senator	DM24	6246.2	13.8	9.4%	22.8%
MC	North Star adit	M31	5162.1	11.4	7.8%	30.6%
CC	Silver Ledge	CC14	5002.6	11.0	7.5%	38.1%
MC	Kohler adit flow (pipe)	M02K	3572.3	7.9	5.4%	43.5%
MC	Ferrocrete Mine	M13D	3236.0	7.1	4.9%	48.4%
CC	Yukon Mine	CC43C	3101.9	6.8	4.7%	53.0%
UA-blw	Pittsburgh Mine	A71	2756.7	6.1	4.2%	57.2%
UA abv	Bagley Tunnel	A12	2559.5	5.6	3.9%	61.0%
CC	Porcupine Adit	CC38B	2457.1	5.4	3.7%	64.7%
MC	Ruby Trust adit	M17B	2124.4	4.7	3.2%	67.9%
CC	Anglo-Saxon	CC37	2097.2	4.6	3.2%	71.1%
UA abv	N side of Calif. Mtn. (b)	0219-01	2082.8	4.6	3.1%	74.2%
CC	Elk tunnel	CC32	1808.5	4.0	2.7%	76.9%
CC	Black Hawk Mine	CC13C	1242.6	2.7	1.9%	78.8%
UA abv	Sound Democrat	DM26	907.2	2.0	1.4%	80.2%
MC	Brooklyn Mine Adit	M12C	873.1	1.9	1.3%	81.5%
MC	Adit 104-W Burro B.	M27D	856.0	1.9	1.3%	82.8%
MC	Bandora Mine	M24	827.0	1.8	1.2%	84.0%
MC	Little Dora	M37	796.7	1.8	1.2%	85.2%
UA abv	Treasure Mountain Min	A26B	759.0	1.7	1.1%	86.4%
CC	Mammoth tunnel	CC29B	747.1	1.6	1.1%	87.5%
UA abv	Lower Comet Adit	A21A	568.1	1.3	0.9%	88.4%
CC	Mogul	CC02D	475.9	1.0	0.7%	89.1%
MC	Upper Bonner adit	M21F	457.1	1.0	0.7%	89.8%
UA-blw	Hamlet	DM39	444.3	1.0	0.7%	90.4%
UA-blw	Little Nation	DM56	426.7	0.9	0.6%	91.1%
MC	Imogene Mine	M13B	375.9	0.8	0.6%	91.6%
MC	Lower Bonner adit	M21D	350.9	0.8	0.5%	92.2%
UA abv	Silver Wing	A29	348.7	0.8	0.5%	92.7%
MC	Bonner Mine	M21B	348.0	0.8	0.5%	93.2%
UA abv	Vermillion Tunnel	A16	338.2	0.7	0.5%	93.7%
UA-blw	Last Chance	DM66	278.4	0.6	0.4%	94.1%
UA-blw	Forest Queen	A41	211.9	0.5	0.3%	94.5%

UA-blw	Pride of the West	A50	207.5	0.5	0.3%	138.8	94.8%	\$60
CC	Grand Mogul	CC01C	199.4	0.4	0.3%	139.2	95.1%	\$120
UA abv	Vermillion Mine	DM17	187.8	0.4	0.3%	139.6	95.4%	\$420
MC	Anvil Mtn.adit?	M33B	186.0	0.4	0.3%	140.0	95.6%	
CC	Queen Ann	CC01A	177.4	0.4	0.3%	140.4	95.9%	\$10
UA-blw	Auburn	DM36	162.8	0.4	0.2%	140.8	96.1%	\$70
MC	Lower Bonner gathere	M21	155.5	0.3	0.2%	141.1	96.4%	\$70
UA-blw	Oyama tunnel	DM49	153.2	0.3	0.2%	141.4	96.6%	
UA abv	Golden Fleece	DM27	136.0	0.3	0.2%	141.7	96.8%	
UA-blw	Unknown Draining Mir	DM37	133.8	0.3	0.2%	142.0	97.0%	
UA abv	Silver Queen	DM25	122.6	0.3	0.2%	142.3	97.2%	
CC	Big Colorado	CC16C	120.4	0.3	0.2%	142.6	97.4%	
MC	INDEPENDENCE MINE	M21H	116.2	0.3	0.2%	142.8	97.6%	
UA-blw	Mighty Monarch	A69	111.8	0.2	0.2%	143.1	97.7%	
UA-blw	Royal Tiger	DM63	110.6	0.2	0.2%	143.3	97.9%	\$300
MC	COLLAPSED MINE, NC	M22B	110.0	0.2	0.2%	143.6	98.1%	
UA abv	Columbus	DM20	99.8	0.2	0.2%	143.8	98.2%	\$300
UA abv	Little Chief	DM3	91.4	0.2	0.1%	144.0	98.3%	
CC	Evelyn Mine	CC21C	84.5	0.2	0.1%	144.2	98.5%	\$1,000
UA abv	Tom Moore	DM22	78.7	0.2	0.1%	144.3	98.6%	\$1,000
CC	Monarch Mine	CC38C	72.4	0.2	0.1%	144.5	98.7%	\$1,010
UA-blw	Moonbean	DM35	66.0	0.1	0.1%	144.7	98.8%	
CC	Unnamed adit between Mogul Mine and	M65	55.3	0.1	0.1%	144.8	98.9%	\$60
CC	Mine 1/2 mile E. Gold	CC10B	63.1	0.1	0.1%	144.9	99.0%	
CC	Occidental	CC13D	59.9	0.1	0.1%	145.1	99.1%	
MC	U.S.Basin #2	M07C	55.9	0.1	0.1%	145.2	99.2%	
UA-blw	Blair Mtn. Tunnel	DM65	53.1	0.1	0.1%	145.3	99.2%	
UA abv	Mountain Queen	A19a	50.0	0.1	0.1%	145.4	99.3%	\$300
MC	Boston	M36	39.6	0.1	0.1%	145.5	99.4%	
MC	Junction Mine	M02B	36.7	0.1	0.1%	145.6	99.4%	\$300
UA-blw	Smuggler	DM46	35.4	0.1	0.1%	145.7	99.5%	
MC	Upper Browns Mine	M12F	33.0	0.1	0.0%	145.7	99.5%	
CC	Adit below and S. of A	CC30J	30.8	0.1	0.0%	145.8	99.6%	
UA abv	Lucky Jack	A02B	30.1	0.1	0.0%	145.9	99.6%	\$60
UA-blw	Hidden Treasure	DM44	28.3	0.1	0.0%	145.9	99.7%	
UA-blw	Old Hundred	A49	26.5	0.1	0.0%	146.0	99.7%	\$0
CC	River right above KC #?		25.0	0.1	0.0%	146.0	99.8%	
UA abv	London Mine	A07LM	24.8	0.1	0.0%	146.1	99.8%	\$0
MC	Silver Crown	M09	22.9	0.1	0.0%	146.2	99.8%	
UA-blw	Unknown Draining Mir	DM38	20.6	0.0	0.0%	146.2	99.9%	
UA-blw	Bradley tunnel	DM54	15.6	0.0	0.0%	146.2	99.9%	
UA-blw	Joseph Neff	DM75	12.9	0.0	0.0%	146.3	99.9%	
UA-blw	Bavarian	DM33	9.9	0.0	0.0%	146.3	99.9%	
UA-blw	Silver Star	DM43	6.8	0.0	0.0%	146.3	99.9%	
UA abv	Indian Chief	DM28	5.9	0.0	0.0%	146.3	99.9%	
UA abv	Early Bird	DM4	4.9	0.0	0.0%	146.3	99.9%	
UA-blw	Ben Franklin	DM32	4.7	0.0	0.0%	146.3	99.9%	
UA abv	Burrows Mine Drainag	A17a	4.2	0.0	0.0%	146.3	100.0%	
UA-blw	Unknown Draining mir	DM72	3.0	0.0	0.0%	146.3	100.0%	

UA-blw	Jess Mine	DM77	2.9	0.0	0.0%	146.4	100.0%	
UA abv	Burrows Mine Drainage	A17b	2.6	0.0	0.0%	146.4	100.0%	
CC	Lewis property: drainin	CC01P	2.5	0.0	0.0%	146.4	100.0%	\$60
CC	Joe & Johns	CC25C	2.2	0.0	0.0%	146.4	100.0%	\$360
UA-blw	Aspen	A63a	2.1	0.0	0.0%	146.4	100.0%	\$420
UA-blw	Upper Maggie	0099-01	1.8	0.0	0.0%	146.4	100.0%	
UA abv	Little Ida	DM14	1.3	0.0	0.0%	146.4	100.0%	
CC	Adit below Open stope	CC02G	1.3	0.0	0.0%	146.4	100.0%	
CC	*Adit above Natalie La	CC15B	1.1	0.0	0.0%	146.4	100.0%	
UA-blw	Esmeralda Mine	DM40	1.1	0.0	0.0%	146.4	100.0%	
UA abv	London Mine-East	A07LM	0.9	0.0	0.0%	146.4	100.0%	
UA-blw	Emma Mine	DM47	0.9	0.0	0.0%	146.4	100.0%	
UA abv	Prospect Lower Burro	DM31	0.7	0.0	0.0%	146.4	100.0%	
UA-blw	South Iowa adit	DM79	0.7	0.0	0.0%	146.4	100.0%	
UA abv	Unknown Mine South	DM30	0.6	0.0	0.0%	146.4	100.0%	
UA-blw	Midway Tunnel	DM74	0.5	0.0	0.0%	146.4	100.0%	
UA-blw	S side Eureka Mtn. Ne	0264-01	0.4	0.0	0.0%	146.4	100.0%	
UA-blw	Little Casino (Coming)	DM73	0.5	0.0	0.0%	146.4	100.0%	
UA abv	Riverside Mine	DM9	0.4	0.0	0.0%	146.4	100.0%	
UA-blw	Queen of Maggie	DM71	0.3	0.0	0.0%	146.4	100.0%	
UA abv	Unknown Prospect Ab	DM1	0.3	0.0	0.0%	146.4	100.0%	
UA-blw	Ezra	DM58	0.3	0.0	0.0%	146.4	100.0%	
UA-blw	Innis Tunnel	DM53	0.3	0.0	0.0%	146.4	100.0%	
UA-blw	above Buckeye mine	0200-01	0.2	0.0	0.0%	146.4	100.0%	
UA abv	Prairie	DM8	0.2	0.0	0.0%	146.4	100.0%	
UA-blw	Argentine tunnel	DM78	0.2	0.0	0.0%	146.4	100.0%	
UA abv	London Mine-West	DM5	0.2	0.0	0.0%	146.4	100.0%	
UA-blw		0321-01	0.1	0.0	0.0%	146.4	100.0%	
MC	Adit 103-NW Burro B.	M27F	0.1	0.0	0.0%	146.4	100.0%	
UA-blw	Upper Maggie adit	0098-01	0.1	0.0	0.0%	146.4	100.0%	
UA-blw	Green Mtn. Mine	DM52	0.1	0.0	0.0%	146.4	100.0%	
UA-blw	adit near top Stony: S	DM50	0.1	0.0	0.0%	146.4	100.0%	
UA abv	Toltec Mine (Lower)	DM29	0.1	0.0	0.0%	146.4	100.0%	
UA-blw	Midway Mine	DM34	0.0	0.0	0.0%	146.4	100.0%	
UA-blw	Iowa	DM62	0.0	0.0	0.0%	146.4	100.0%	
UA-blw	King Solomon	DM59	0.0	0.0	0.0%	146.4	100.0%	
			0.0	0.0	0.0%	146.4	100.0%	
UA-blw	Black Prince	DM60	0.0	0.0	0.0%	146.4	100.0%	
UA-blw	Valley Forge	DM57	0.0	0.0	0.0%	146.4	100.0%	
UA-blw	Marcelle Mine	0191-01	0.0	0.0	0.0%	146.4	100.0%	
CC	Red & Bonita Mine	CC03C	0.0	0.0	0.0%	146.4	100.0%	
CC	Henrietta 7 Mine	CC24G	0.0	0.0	0.0%	146.4	100.0%	
CC	Lark Mine	CC24D	0.0	0.0	0.0%	146.4	100.0%	
CC	Mine South of Mogul	CC02E	0.0	0.0	0.0%	146.4	100.0%	
CC	Kansas City Adit #1	CC30D	0.0	0.0	0.0%	146.4	100.0%	
CC	Kansas City Adit #2	CC30E	0.0	0.0	0.0%	146.4	100.0%	
UA abv	Upper Comet Adit	A21D	0.0	0.0	0.0%	146.4	100.0%	
UA abv	Gold Prince	A23a	0.0	0.0	0.0%	146.4	100.0%	
UA-blw	Ridgeway Mine (Cryst:	0199-01	0.0	0.0	0.0%	146.4	100.0%	

	<b>Total</b>		66411.2	146.4	100.0%			
CC	<b>Small dump S. of Gale?</b>		0.0					
CC	<b>Handcock Gulch adit</b>	CC47B	NA					
CC	<b>Avalanche Mine</b>	CC30K	NA					
CC	<b>Georgia Gulch adit</b>	CC30L	NA					
MC	<b>Adit S. Chattanooga Cu</b>	M10B	NA					
MC	<b>Paradise Adit #4</b>	M16D	NA					
MC	<b>Adit 104-W Burro B.</b>	M27D	NA					
MC	<b>Bullion King</b>		NA					
MC	<b>Burbank Portal</b>	M26B	NA					
MC	<b>Paradise Adit #2</b>	M16B	NA					
MC	<b>Ensle Tunnel</b>	M26C	NA					
MC	<b>1st SW MF Min adit</b>	M18B	NA					
MC	<b>Adit E.of Burro Brg</b>	M27DE	NA					
MC	<b>Paradise Adit #3</b>	M16C	NA					
MC	<b>U.S. Basin #1</b>	M07D	NA					
MC	<b>Brooklyn slide 6</b>	WBG10	NA					
MC	<b>Chatanooga adit</b>	M11B	NA					
MC	<b>Colaps adit E.Burro</b>	M27E	NA					
MC	<b>Adit 103-W Burro B.</b>	M27F	NA					
MC	<b>Lower S.Park</b>	M23B	NA					
UA-abv	<b>Toltec Vein above Upp</b>	0212-01	NA					
UA-abv	<b>Little Ida Mine Drainag</b>	DM-11	NA					
UA-abv	<b>Little Ida Mine Drainag</b>	DM-13	NA					
UA-abv	<b>N.of Cinn. Pass</b>	0184-01	NA					
UA-abv	<b>Middle Toltec</b>	0218-01	NA					
UA-abv	<b>Burrows or Ida?</b>	0088-01	NA					
UA-abv	<b>N.of Cinn. Pass</b>	0184-02	NA					
UA-abv	<b>Adit opposite River frc</b>	0169-01	NA					
UA-blw	<b>Lower Ransom Mine</b>	DM69	NA					
UA-blw	<b>Kitti Mack</b>	DM68	NA					
UA-blw	<b>Shenandoah Dives Mir</b>	DM55	NA					
UA-blw	<b>Upper Iowa Mine</b>	DM61	NA					
UA-blw	<b>Champion Mine</b>	DM76	NA					
UA-blw	<b>SF Eureka; E facing 1/</b>	0207-01	NA					
UA-blw	<b>Progressive</b>	DM42	NA					
UA-blw	<b>Adit adj. Pond #1</b>	0164-01	NA					
UA-blw	<b>Little Casino (Coming</b>	DM73	NA					
UA-blw	<b>Adit W. &amp;S. of Pride of</b>	0079-01	NA					
UA-blw	<b>Adit 1/8mi. S. of Esme</b>	0024-01	NA					
UA-blw	<b>Upper Minnie adit</b>	0025-02	NA					
UA-blw	<b>Little Maud</b>	DM41	NA					
UA-blw	<b>Adit 3/4 mi. S. of Esme</b>	0025-01	NA					

Reduction per technology:							
Bulkhead = 50%							
Passive Treatment = 30%							
Reduction Costs				Active = 85%			
Cum. Cost							
phase 1+2	Phase 1	Phase 2	% Reductions		Load Removed in #'s/day		
reductions costs	Costs	Phase 1	Phase 2	Phase 1	Cumulative	Phase 2	
x \$1000	per site	per site			phase 1		
\$1,060	60	1000	0	50	0.00	0.00	9.80
\$1,660	300	300	30	50	4.13	4.13	6.89
\$2,960	300	1000	50	50	5.69	9.82	5.69
\$3,560	300	300	50	50	5.52	15.34	5.52
\$3,920	60	300	50	50	3.94	19.28	3.94
\$4,220	300		50	50	3.57	22.84	3.57
\$4,580	60	300	50	50	3.42	26.26	3.42
\$4,580	0		0		0.00	26.26	0.00
\$5,180	300	300	30	50	1.69	27.96	2.82
\$6,240	60	1000	30	50	1.63	29.58	2.71
\$6,540	300		50	50	2.34	31.93	2.34
\$6,900	60	300	30	50	1.39	33.31	2.31
\$7,260	60	300	30	50	1.38	34.69	2.30
\$7,570	300	10	30	50	1.20	35.89	1.99
\$7,880	10	300	0	50	0.00	35.89	1.37
\$8,240	60	300	50	50	1.00	36.89	1.00
\$8,840	300	300	30	50	0.58	37.46	0.96
\$8,840			0	50	0.00	37.46	0.00
\$9,900	60	1000	30	50	0.55	38.01	0.91
\$11,200	300	1000	50	85	0.88	38.89	1.49
			0	50	0.00	38.89	0.84
\$11,560	60	300	30	50	0.49	39.38	0.82
\$11,870	10	300	0	50	0.00	39.38	0.63
\$13,170	1000	300	80	50	0.84	40.22	0.52
\$14,470	300	1000	50	90	0.50	40.73	0.91
\$14,780	300	10	30	30	0.29	41.02	0.29
\$15,380	300	300	30	50	0.28	41.30	0.47
			50	50	0.41	41.72	0.41
\$15,980	300	300	30	50	0.23	41.95	0.39
\$16,280	0	300	30	85	0.23	42.18	0.65
\$16,880	300	300	50	50	0.38	42.56	0.38
\$16,880	0		0	0	0.00	42.56	0.00
			0	0	0.00	42.56	0.00
			85	85	0.40	42.96	0.40

\$360	60	300	30	50	0.14	43.10	0.23
\$1,420	60	1000	0	50	0.00	43.10	0.22
\$1,720	300		50	50	0.21	43.31	0.21
			0	0	0.00	43.31	0.00
\$310	10	300	0	50	0.00	43.31	0.20
\$370	60		30	0	0.11	43.41	0.00
\$370			0	0	0.00	43.41	0.00
			0	0	0.00	43.41	0.00
			50	50	0.15	43.56	0.15
			30	30	0.09	43.65	0.09
			50	50	0.14	43.79	0.14
			50	50	0.13	43.92	0.13
			50	50	0.13	44.05	0.13
			0	0	0.00	44.05	0.00
\$600	300	300	50	80	0.12	44.17	0.20
			0	0	0.00	44.17	0.00
\$600	300	300	50	30	0.11	44.28	0.07
			50	50	0.10	44.38	0.10
\$1,000	1000	0	50	50	0.09	44.47	0.09
\$1,000	0		0		0.00	44.47	0.00
\$1,310	10	300	30	50	0.05	44.52	0.08
			50	50	0.07	44.59	0.07
\$60	60		50	50	0.07	44.67	0.07
			0	50	0.00	44.67	0.07
			0	50	0.00	44.67	0.07
			0	0	0.00	44.67	0.00
			0	0	0.00	44.67	0.00
\$600	300	300	50	50	0.06	44.72	0.06
			0		0.00	44.72	0.00
\$1,300	300	1000	50	30	0.04	44.76	0.02
			0	0	0.00	44.76	0.00
			30	50	0.02	44.78	0.04
			0	50	0.00	44.78	0.03
\$360	60	300	50	80	0.03	44.82	0.05
			0	0	0.00	44.82	0.00
\$0	0		0	0	0.00	44.82	0.00
			0	0	0.00	44.82	0.00
\$0	0		0	0	0.00	44.82	0.00
			0	0	0.00	44.82	0.00
			30	30	0.01	44.83	0.01
			30	50	0.01	44.84	0.02
			0		0.00	44.84	0.00
			50	0	0.01	44.85	0.00
			0	0	0.00	44.85	0.00
			0	0	0.00	44.85	0.00
			0	0	0.00	44.85	0.00
			50	50	0.01	44.86	0.01
			0	0	0.00	44.86	0.00
			0	0	0.00	44.86	0.00





**CUMULATIVE ADIT LOADING, REDUCTIONS AND COSTS - ALUMINUM**

(0 values = below detection limit)

2/21/2001

Basin	ARSG Designation NEW DESite #	Low Flow Loading				Reduction Costs			
		AI value (grams/d)	AI value (lbs/d)	Adit Loading (lbs/d)	Percent of Total Cumulative Adit Loading (lbs/d)	Cumulative reductions percentage		Cum.Costs phase 1 x \$1000	Cum. Cost phase 1+2 x \$1000
						Adit Loading (lbs/d)	Cumulative reductions percentage		
CC	Gold King			60.1					
MC	Kohler adM02K	12585.8	27.7	27.0%	27.7	27.0%		\$60	\$360
MC	Paradise /M16	12483.6	27.5	26.8%	55.3	53.7%		\$120	\$1,420
MC	Anvil Mtn.M33B	6380.2	14.1	13.7%	69.3	67.4%			
CC	Red & Bonita Mine			13.5					
CC	American Tunnel			7.0					
CC	Silver LedCC14	1795.3	4.0	3.8%	73.3	71.2%		\$420	\$2,020
UA abv Eu	N side of I0219-01	1756.1	3.9	3.8%	77.2	75.0%		\$480	\$2,380
MC	FerrocretM13D	1223.1	2.7	2.6%	79.9	77.6%		\$780	\$2,680
CC	Evelyn MiCC21C	1067.4	2.4	2.3%	82.2	79.9%		\$1,780	\$3,680
CC	Mogul			2.0					
MC	Bonner M M21B	862.8	1.9	1.8%	84.1	81.8%		\$2,080	\$4,280
UA abv Eu	Lower CoA21A	859.5	1.9	1.8%	86.0	83.6%		\$2,090	\$4,590
MC	Lower Bo M21D	710.4	1.6	1.5%	87.6	85.1%		\$2,390	\$5,190
MC	Upper Bo M21F	685.6	1.5	1.5%	89.1	86.6%		\$2,690	\$6,490
UA abv Eu	Senator DM24	667.7	1.5	1.4%	90.6	88.0%		\$2,990	\$7,090
CC	Big Color:CC16C	555.8	1.2	1.2%	91.8	89.2%			
MC	Lower Bo M21	421.2	0.9	0.9%	92.7	90.1%		\$2,990	\$7,090
MC	Brooklyn M12C	414.4	0.9	0.9%	93.6	91.0%		\$3,290	\$7,690
MC	INDEPENIM21H	409.8	0.9	0.9%	94.5	91.9%			
CC	Monarch ICC38C	332.9	0.7	0.7%	95.3	92.6%		\$3,300	\$8,000
MC	North Sta M31	300.8	0.7	0.6%	95.9	93.3%		\$3,600	\$9,300
CC	MammothCC29B	279.1	0.6	0.6%	96.5	93.8%		\$3,660	\$9,660
CC	Grand MoCC01C	270.0	0.6	0.6%	97.1	94.4%		\$3,720	\$10,720
CC	Adit belovCC30J	253.1	0.6	0.5%	97.7	95.0%			
CC	Mogul CC02D	244.6	0.5	0.5%	98.2	95.5%		\$1,000	\$1,300
MC	Imogene IM13B	189.4	0.4	0.4%	98.7	95.9%			
UA-blw	Forest QuA41	172.0	0.4	0.4%	99.0	96.3%			
MC	Junction IM02B	146.7	0.3	0.3%	99.4	96.6%		\$300	\$1,300
UA abv Eu	ColumbusDM20	138.4	0.3	0.3%	99.7	96.9%		\$600	\$1,900
MC	Adit 104-VM27D	124.5	0.3	0.3%	99.9	97.1%		\$600	\$1,900
CC	Anglo-SaxCC37	107.9	0.2	0.2%	100.2	97.4%		\$660	\$2,260
UA-blw	Royal TigDM63	98.1	0.2	0.2%	100.4	97.6%		\$960	\$2,860
CC	Joe & JohCC25C	97.4	0.2	0.2%	100.6	97.8%		\$1,260	\$3,460
UA abv Eu	Little ChieDM3	94.6	0.2	0.2%	100.8	98.0%			
CC	OccidentaCC13D	94.3	0.2	0.2%	101.0	98.2%			
CC	Elk tunnelCC32	85.6	0.2	0.2%	101.2	98.4%		\$300	\$310
UA abv Eu	VermillionDM17	81.6	0.2	0.2%	101.4	98.6%		\$600	\$610

CC	Unnamed adit between Mogollon R.	0.2	0.2%	101.6	98.7%	\$660	\$670	
CC	Mine 1/2 nCC10B	66.9	0.1	0.1%	101.7	98.9%		
UA abv	EuLucky Jack A02B	64.5	0.1	0.1%	101.8	99.0%	\$60	\$360
UA abv	EuMountain A19a	49.3	0.1	0.1%	102.0	99.1%	\$360	\$960
UA-blw	Joseph N'DM75	46.1	0.1	0.1%	102.1	99.2%		
UA abv	EuSilver King A29	36.3	0.1	0.1%	102.1	99.3%	\$0	\$300
UA abv	EuGolden Fly DM27	34.9	0.1	0.1%	102.2	99.4%		
UA abv	EuBagley TuA12	34.6	0.1	0.1%	102.3	99.4%	\$300	\$600
MC	Upper BrcM12F	31.0	0.1	0.1%	102.4	99.5%		
UA abv	EuSound De DM26	29.8	0.1	0.1%	102.4	99.6%	\$60	\$360
CC	PorcupineCC38B	27.7	0.1	0.1%	102.5	99.6%	\$120	\$1,420
CC	River righ?	27.1	0.1	0.1%	102.5	99.7%		
UA-blw	Little Nati DM56	24.1	0.1	0.1%	102.6	99.7%	\$300	\$600
MC	Bandora IM24	15.5	0.0	0.0%	102.6	99.8%	\$360	\$1,660
CC	Adit belovCC02G	13.7	0.0	0.0%	102.7	99.8%		
CC	Queen AnCC01A	13.5	0.0	0.0%	102.7	99.8%	\$10	\$310
UA abv	EuVermillion A16	11.6	0.0	0.0%	102.7	99.9%	\$10	\$310
CC	*Adit above CC15B	10.6	0.0	0.0%	102.7	99.9%		
MC	COLLAPSM22B	9.8	0.0	0.0%	102.8	99.9%		
UA-blw	Mighty McA69	9.1	0.0	0.0%	102.8	99.9%		
UA-blw	Ben Frank DM32	7.5	0.0	0.0%	102.8	99.9%		
UA abv	EuEarly Bird DM4	4.5	0.0	0.0%	102.8	99.9%		
UA-blw	Unknown DM72	4.1	0.0	0.0%	102.8	100.0%		
UA-blw	Midway Ti DM74	2.5	0.0	0.0%	102.8	100.0%		
UA abv	EuBurrows IA17a	2.5	0.0	0.0%	102.8	100.0%		
UA abv	EuSilver Queen DM25	2.3	0.0	0.0%	102.8	100.0%		
UA-blw	Unknown DM38	2.3	0.0	0.0%	102.8	100.0%		
UA-blw	South lowDM79	1.9	0.0	0.0%	102.8	100.0%		
MC	U.S.Basin M07C	1.6	0.0	0.0%	102.8	100.0%		
UA abv	EuToltec Mir DM29	1.5	0.0	0.0%	102.9	100.0%		
UA-blw	Upper Main 0099-01	1.1	0.0	0.0%	102.9	100.0%		
UA abv	EuLittle Ida DM14	0.9	0.0	0.0%	102.9	100.0%		
UA-blw	Marcelle N0191-01	0.7	0.0	0.0%	102.9	100.0%		
CC	Lewis proCC01P	0.5	0.0	0.0%	102.9	100.0%	\$60	\$60
UA abv	EuUnknown DM1	0.5	0.0	0.0%	102.9	100.0%		
UA abv	EuRiverside DM9	0.4	0.0	0.0%	102.9	100.0%		
UA-blw	S side Eu0264-01	0.8	0.0	0.0%	102.9	100.0%		
UA abv	EuProspect IDM31	0.3	0.0	0.0%	102.9	100.0%		
UA abv	EuLondon MA07LMS	0.3	0.0	0.0%	102.9	100.0%		
UA-blw	Bavarian DM33	0.3	0.0	0.0%	102.9	100.0%		
UA abv	EuBurrows IA17b	0.3	0.0	0.0%	102.9	100.0%		
UA-blw	adit near 1DM50	0.2	0.0	0.0%	102.9	100.0%		
MC	Adit 103-NM27F	0.2	0.0	0.0%	102.9	100.0%		
UA abv	EuLondon NDM5	0.2	0.0	0.0%	102.9	100.0%		
UA-blw	above Bu0200-01	0.1	0.0	0.0%	102.9	100.0%		
UA-blw	Ridgeway 0199-01	0.1	0.0	0.0%	102.9	100.0%		
UA-blw	Pride of the A50	0.0	0.0	0.0%	102.9	100.0%	\$60	\$360
UA-blw	Aspen A63a	0.0	0.0	0.0%	102.9	100.0%	\$120	\$1,420
CC	Yukon MirCC43C	0.0	0.0	0.0%	102.9	100.0%	\$180	\$1,780

CC	<b>Black Hav</b>	CC13C	0.0	0.0	0.0%	102.9	100.0%	\$190	\$2,090
UA-blw	<b>Old Hund</b>	A49	0.0	0.0	0.0%	102.9	100.0%	\$190	\$2,090
MC	<b>Ruby Trus</b>	M17B	0.0	0.0	0.0%	102.9	100.0%	\$490	\$2,390
UA abv	<b>EuTom Moor</b>	DM22	0.0	0.0	0.0%	102.9	100.0%	\$490	\$2,390
UA abv	<b>EuLondon</b>	MA07LM	0.0	0.0	0.0%	102.9	100.0%	\$490	\$2,390
UA-blw	<b>Pittsburg</b>	A71	0.0	0.0	0.0%	102.9	100.0%	\$490	\$2,390
UA-blw	<b>Auburn</b>	DM36	0.0	0.0	0.0%	102.9	100.0%	\$550	\$2,450
UA-blw	<b>Hamlet</b>	DM39	0.0	0.0	0.0%	102.9	100.0%	\$850	\$2,760
MC	<b>Little Dor</b>	M37	0.0	0.0	0.0%	102.9	100.0%	\$1,150	\$4,060
UA-blw	<b>Moonbear</b>	DM35	0.0	0.0	0.0%	102.9	100.0%		
UA abv	<b>EuTreasure</b>	IA26B	0.0	0.0	0.0%	102.9	100.0%		
MC	<b>Boston</b>	M36	0.0	0.0	0.0%	102.9	100.0%		
UA-blw	<b>Green Mtr</b>	DM52	0.0	0.0	0.0%	102.9	100.0%		
MC	<b>Silver Cro</b>	M09	0.0	0.0	0.0%	102.9	100.0%		
UA-blw	<b>Bradley tu</b>	DM54	0.0	0.0	0.0%	102.9	100.0%		
UA-blw	<b>Unknown</b>	DM37	0.0	0.0	0.0%	102.9	100.0%		
UA-blw	<b>Last Chan</b>	DM66	0.0	0.0	0.0%	102.9	100.0%		
UA-blw	<b>Innis Tun</b>	DM53	0.0	0.0	0.0%	102.9	100.0%		
UA-blw	<b>Hidden Tr</b>	DM44	0.0	0.0	0.0%	102.9	100.0%		
UA-blw	<b>Little Casi</b>	DM73	0.0	0.0	0.0%	102.9	100.0%		
UA-blw	<b>Silver Sta</b>	DM43	0.0	0.0	0.0%	102.9	100.0%		
UA-blw	<b>Oyama tu</b>	DM49	0.0	0.0	0.0%	102.9	100.0%		
UA-blw	<b>Argentine</b>	DM78	0.0	0.0	0.0%	102.9	100.0%		
UA-blw	<b>Emma Mir</b>	DM47	0.0	0.0	0.0%	102.9	100.0%		
UA abv	<b>EuPrairie</b>	DM8	0.0	0.0	0.0%	102.9	100.0%		
UA abv	<b>EuIndian Chi</b>	DM28	0.0	0.0	0.0%	102.9	100.0%		
UA-blw	<b>Iowa</b>	DM62	0.0	0.0	0.0%	102.9	100.0%		
UA-blw	<b>Black Prir</b>	DM60	0.0	0.0	0.0%	102.9	100.0%		
UA-blw	<b>Valley For</b>	DM57	0.0	0.0	0.0%	102.9	100.0%		
UA-blw	<b>Ezra</b>	DM58	0.0	0.0	0.0%	102.9	100.0%		
UA-blw	<b>Queen of</b>	DM71	0.0	0.0	0.0%	102.9	100.0%		
UA abv	<b>EuUnknown</b>	DM30	0.0	0.0	0.0%	102.9	100.0%		
UA-blw	<b>Smuggler</b>	DM46	0.0	0.0	0.0%	102.9	100.0%		
UA-blw	<b>Esmerald</b>	:DM40	0.0	0.0	0.0%	102.9	100.0%		
UA-blw	<b>Jess Mine</b>	DM77	0.0	0.0	0.0%	102.9	100.0%		
UA-blw	<b>King Solo</b>	DM59	0.0	0.0	0.0%	102.9	100.0%		
UA-blw	<b>Midway</b>	MDM34	0.0	0.0	0.0%	102.9	100.0%		
UA-blw	<b>0321-01</b>		0.0	0.0	0.0%	102.9	100.0%		
UA-blw	<b>Upper Ma</b>	0098-01	0.0	0.0	0.0%	102.9	100.0%		
			0.0	0.0	0.0%	102.9	100.0%		
CC	<b>Red &amp; Boi</b>	CC03C	0.0	0.0	0.0%	102.9	100.0%		
CC	<b>Henrietta</b>	CC24G	0.0	0.0	0.0%	102.9	100.0%		
CC	<b>Lark Mine</b>	CC24D	0.0	0.0	0.0%	102.9	100.0%		
CC	<b>Mine Sout</b>	CC02E	0.0	0.0	0.0%	102.9	100.0%		
CC	<b>Kansas Ci</b>	CC30D	0.0	0.0	0.0%	102.9	100.0%		
CC	<b>Kansas Ci</b>	CC30E	0.0	0.0	0.0%	102.9	100.0%		
UA abv	<b>EuUpper Coi</b>	A21D	0.0	0.0	0.0%	102.9	100.0%		
UA abv	<b>EuGold Prin</b>	A23a	0.0	0.0	0.0%	102.9	100.0%		
UA-blw	<b>Blair Mtn.</b>	DM65	0.0	0.0	0.0%	102.9	100.0%		

<b>Total</b>	46661.2	102.9	100.0%
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CC	<b>Small dun?</b>	0.0
CC	<b>HandcockCC47B</b>	NA
CC	<b>AvalanchCC30K</b>	NA
CC	<b>Georgia GCC30L</b>	NA
MC	<b>Adit S. ChM10B</b>	NA
MC	<b>Paradise /M16D</b>	NA
MC	<b>Adit 104-VM27D</b>	NA
MC	<b>Bullion King</b>	NA
MC	<b>Burbank FM26B</b>	NA
MC	<b>Paradise /M16B</b>	NA
MC	<b>Ensle TunM26C</b>	NA
MC	<b>1st SW MIM18B</b>	NA
MC	<b>Adit E.of FM27DE</b>	NA
MC	<b>Paradise /M16C</b>	NA
MC	<b>U.S. BasirM07D</b>	NA
MC	<b>Brooklyn -WBG10</b>	NA
MC	<b>ChatanooM11B</b>	NA
MC	<b>Colaps adM27E</b>	NA
MC	<b>Adit 103-VM27F</b>	NA
MC	<b>Lower S.PM23B</b>	NA
UA abv Eu	<b>Toltec Vei0212-01</b>	NA
UA abv Eu	<b>Little Ida IDM-11</b>	NA
UA abv Eu	<b>Little Ida IDM-13</b>	NA
UA abv Eu	<b>N.of Cinn.0184-01</b>	NA
UA abv Eu	<b>Middle To 0218-01</b>	NA
UA abv Eu	<b>Burrows c0088-01</b>	NA
UA abv Eu	<b>N.of Cinn.0184-02</b>	NA
UA abv Eu	<b>Adit oppo 0169-01</b>	NA
UA-blw	<b>Lower RaiDM69</b>	NA
UA-blw	<b>Kitti MackDM68</b>	NA
UA-blw	<b>ShenandoDM55</b>	NA
UA-blw	<b>Upper lowDM61</b>	NA
UA-blw	<b>ChampionDM76</b>	NA
UA-blw	<b>SF Eureka0207-01</b>	NA
UA-blw	<b>ProgressiDM42</b>	NA
UA-blw	<b>Adit adj. F0164-01</b>	NA
UA-blw	<b>Little CasiDM73</b>	NA
UA-blw	<b>Adit W. &amp;0079-01</b>	NA
UA-blw	<b>Adit 1/8mi0024-01</b>	NA
UA-blw	<b>Upper Mir0025-02</b>	NA
UA-blw	<b>Little MauDM41</b>	NA
UA-blw	<b>Adit 3/4 m0025-01</b>	NA

Reduction per technology:

Bulkhead = 50%

Passive Treatment = 30%

Active = 85%

Phase 1 costs per site	Phase 2 Costs per site	%Reductions	Load Removed in #'s/day			
Phase 1 costs per site	Phase 2 Costs per site	Phase 1	Phase 2	Phase 1	Cumulative Phase 2 phase 1	
60	300	50	50	13.88	13.88	13.88
60	1000	0	50	0.00	13.88	13.76
		0	0	0.00	13.88	0.00
300	300	50	50	1.98	15.86	1.98
60	300	30	50	1.16	17.02	1.94
300		50	50	1.35	18.37	1.35
1000	0	50	50	1.18	19.54	1.18
300	300	50	50	0.95	20.49	0.95
10	300	0	50	0.00	20.49	0.95
300	300	30	50	0.47	20.96	0.78
300	1000	50	90	0.76	21.72	1.36
300	300	30	50	0.44	22.16	0.74
		50	50	0.61	22.77	0.61
		0	0	0.00	22.77	0.00
300	300	30	50	0.27	23.05	0.46
		50	50	0.45	23.50	0.45
10	300	30	50	0.22	23.72	0.37
300	1000	50	50	0.33	24.05	0.33
60	300	30	50	0.18	24.24	0.31
60	1000	0	50	0.00	24.24	0.30
		0	50	0.00	24.24	0.28
1000	300	80	50	0.43	24.67	0.27
		50	50	0.21	24.88	0.21
		85	85	0.32	25.20	0.32
300	1000	50	30	0.16	25.36	0.10
300	300	50	30	0.15	25.51	0.09
		0	0	0.00	25.51	0.00
60	300	30	50	0.07	25.58	0.12
300	300	50	80	0.11	25.69	0.17
300	300	30	50	0.06	25.76	0.11
		50	50	0.10	25.86	0.10
		0	50	0.00	25.86	0.10
300	10	30	50	0.06	25.92	0.09
300		50	50	0.09	26.01	0.09

60		50	50	0.09	26.09	0.09
		0	50	0.00	26.09	0.07
60	300	50	80	0.07	26.16	0.11
300	300	50	50	0.05	26.22	0.05
		0		0.00	26.22	0.00
0	300	30	85	0.02	26.24	0.07
		50	50	0.04	26.28	0.04
300	300	30	50	0.02	26.30	0.04
		30	50	0.02	26.32	0.03
60	300	50	50	0.03	26.36	0.03
60	1000	30	50	0.02	26.38	0.03
		0	0	0.00	26.38	0.00
300	300	30	50	0.02	26.39	0.03
60	1000	30	50	0.01	26.40	0.02
		0		0.00	26.40	0.00
10	300	0	50	0.00	26.40	0.01
0		0	0	0.00	26.40	0.00
		30	50	0.01	26.41	0.01
		0	0	0.00	26.41	0.00
		0	0	0.00	26.41	0.00
		50	50	0.01	26.42	0.01
		0	0	0.00	26.42	0.00
		0	0	0.00	26.42	0.00
		0	0	0.00	26.42	0.00
		50	50	0.00	26.42	0.00
		30	30	0.00	26.42	0.00
		50	50	0.00	26.42	0.00
		0	0	0.00	26.42	0.00
		0		0.00	26.42	0.00
		0	0	0.00	26.42	0.00
		0	0	0.00	26.42	0.00
60		50	50	0.00	26.42	0.00
		50	50	0.00	26.42	0.00
		0		0.00	26.42	0.00
		0		0.00	26.42	0.00
		0	0	0.00	26.42	0.00
		0	0	0.00	26.42	0.00
		50	0	0.00	26.43	0.00
		0	0	0.00	26.43	0.00
		0		0.00	26.43	0.00
		0	0	0.00	26.43	0.00
		0	0	0.00	26.43	0.00
		0	0	0.00	26.43	0.00
60	300	30	50	0.00	26.43	0.00
60	1000	30	85	0.00	26.43	0.00
60	300	50	50	0.00	26.43	0.00



		0.00	26.43	0.00
		0.00	26.43	0.00
		0.00	26.43	0.00
	0	?	0.00	26.43
	0	50		
	30	30		
	0	50		
	30	50		
	0	0		
	0	0		
	30	50		
	0	50		
	0	50		
	0	0		
	0	0		
	0	?		
	0	0		
	0	0		
	0	0		
	0	0		
	0	0		
	0	0		
	0	0		
	50	85		
	0	0		
	0	0		
	0	0		
	0	0		
	0	0		
	0	0		
	0	0		
	0	0		
	30	30		
	0			
	0			
	0			
	0			

**CUMULATIVE ADIT LOADING, REDUCTIONS AND COSTS - IRON**

(0 values = below detection limit)

2/21/2001

Basin	ARSG Designation	Low Flow Loading				Reduction Costs		
		NEW DESite #	Fe value (grams/d)	Fe value (lbs/d)	Percent of Total	Cumulative Adit Loading Loading (lbs/d)	Cumulative reductions percentage	Cum.Costs phase 1 x \$1000
					Adit Loading (lbs/d)	Adit Loading (lbs/d)	x \$1000	Cum. Cost phase 1+2 x \$1000
CC	Red & Bonita Mine			356				
MC	Kohler adM02K	119583.6	263.6	34.0%	263.6	34.0%	\$60	\$360
MC	Paradise /M16	111364.1	245.5	31.7%	509.1	65.7%	\$120	\$1,420
CC	Gold King		224.0					
CC	American Tunnel		192.0					
CC	Silver LeadCC14	25221.4	55.6	7.2%	564.7	72.8%	\$420	\$2,020
MC	FerrocreteM13D	14358.6	31.7	4.1%	596.4	76.9%	\$720	\$2,320
UA abv Eu	Senator DM24	10547.3	23.3	3.0%	619.7	79.9%	\$1,020	\$2,920
CC	Mogul		20.7					
CC	MammothCC29B	7204.2	15.9	2.0%	635.5	82.0%	\$1,080	\$3,280
CC	Anglo-SaxCC37	6748.3	14.9	1.9%	650.4	83.9%	\$1,140	\$3,640
MC	Anvil Mtn.M33B	5737.8	12.6	1.6%	663.1	85.5%		
CC	PorcupineCC38B	4377.2	9.6	1.2%	672.7	86.8%	\$1,200	\$4,700
MC	Brooklyn M12C	3682.5	8.1	1.0%	680.8	87.8%	\$1,500	\$5,300
CC	Elk tunnelCC32	3534.1	7.8	1.0%	688.6	88.8%	\$1,800	\$5,610
CC	Yukon MirCC43C	3270.3	7.2	0.9%	695.8	89.8%	\$1,860	\$5,970
CC	Big Color:CC16C	2613.4	5.8	0.7%	701.6	90.5%		
MC	North StarM31	2611.3	5.8	0.7%	707.4	91.2%	\$2,160	\$7,270
CC	Mogul CC02D	2367.1	5.2	0.7%	712.6	91.9%	\$3,160	\$8,570
MC	Imogene IM13B	2226.4	4.9	0.6%	717.5	92.5%		
MC	Adit 104-VM27D	2103.3	4.6	0.6%	722.1	93.1%	\$0	\$0
UA-blw	Forest QuA41	2066.8	4.6	0.6%	726.7	93.7%		
MC	Ruby TrusM17B	1957.8	4.3	0.6%	731.0	94.3%	\$300	\$300
UA-blw	Little NatiDM56	1841.0	4.1	0.5%	735.0	94.8%	\$600	\$900
CC	Evelyn MiCC21C	1512.9	3.3	0.4%	738.4	95.2%	\$1,600	\$1,900
CC	Adit belovCC30J	1483.1	3.3	0.4%	741.6	95.7%		
MC	Junction IM02B	1345.0	3.0	0.4%	744.6	96.0%	\$300	\$1,300
UA-blw	Unknown DM37	1091.5	2.4	0.3%	747.0	96.4%		
MC	Upper BoiM21F	1088.2	2.4	0.3%	749.4	96.7%	\$300	\$1,300
CC	Monarch ICC38C	1087.4	2.4	0.3%	751.8	97.0%	\$310	\$1,610
CC	OccidentaCC13D	943.9	2.1	0.3%	753.9	97.2%		
MC	Lower BoiM21D	941.5	2.1	0.3%	756.0	97.5%	\$300	\$600
MC	Bandora IM24	899.5	2.0	0.3%	758.0	97.8%	\$360	\$1,660
MC	Bonner MIM21B	889.5	2.0	0.3%	759.9	98.0%	\$660	\$2,260
MC	Lower BoiM21	777.7	1.7	0.2%	761.6	98.2%	\$660	\$2,260
CC	Lewis proCC01P	739.2	1.6	0.2%	763.3	98.5%	\$720	\$2,320
UA abv Eu	Lower CoIA21A	626.6	1.4	0.2%	764.6	98.6%	\$730	\$2,630
MC	COLLAPSM22B	571.6	1.3	0.2%	765.9	98.8%		

UA abv Eu	<b>ColumbusDM20</b>	567.9	1.3	0.2%	767.2	99.0%	\$300	\$600
UA abv Eu	<b>VermillionDM17</b>	540.7	1.2	0.2%	768.3	99.1%	\$600	\$900
CC	<b>Joe &amp; JohCC25C</b>	454.7	1.0	0.1%	769.4	99.2%	\$900	\$1,500
UA abv Eu	<b>N side of I0219-01</b>	449.2	1.0	0.1%	770.3	99.4%	\$960	\$1,860
CC	<b>Unnamed adit between Mogollon Mts</b>	281.1	0.6	0.1%	771.0	99.4%	\$1,020	\$1,920
UA abv Eu	<b>Silver WinA29</b>	237.9	0.5	0.1%	771.5	99.5%	\$1,020	\$2,220
MC	<b>Upper BrC12F</b>	202.8	0.4	0.1%	771.9	99.6%		
UA-blw	<b>Hamlet DM39</b>	170.8	0.4	0.0%	772.3	99.6%	\$300	\$310
UA-blw	<b>Last ChanDM66</b>	167.3	0.4	0.0%	772.7	99.7%		
CC	<b>River righ ?</b>	117.4	0.3	0.0%	772.9	99.7%		
UA abv Eu	<b>Mountain A19a</b>	111.0	0.2	0.0%	773.2	99.7%	\$300	\$600
UA-blw	<b>Smuggler DM46</b>	99.8	0.2	0.0%	773.4	99.8%		
UA-blw	<b>Auburn DM36</b>	98.0	0.2	0.0%	773.6	99.8%	\$60	\$60
UA-blw	<b>Blair Mtn. DM65</b>	90.5	0.2	0.0%	773.8	99.8%		
UA abv Eu	<b>Bagley TuA12</b>	89.5	0.2	0.0%	774.0	99.8%	\$300	\$600
UA-blw	<b>Hidden Tr DM44</b>	62.5	0.1	0.0%	774.2	99.9%		
UA abv Eu	<b>Little ChieDM3</b>	52.7	0.1	0.0%	774.3	99.9%		
UA abv Eu	<b>Lucky JacA02B</b>	47.9	0.1	0.0%	774.4	99.9%	\$60	\$360
UA-blw	<b>Unknown DM38</b>	43.3	0.1	0.0%	774.5	99.9%		
UA-blw	<b>Oyama tu DM49</b>	36.8	0.1	0.0%	774.6	99.9%		
CC	<b>*Adit above CC15B</b>	34.1	0.1	0.0%	774.6	99.9%		
CC	<b>Grand MoCC01C</b>	30.9	0.1	0.0%	774.7	99.9%	\$60	\$1,060
UA abv Eu	<b>Silver QuetDM25</b>	26.4	0.1	0.0%	774.8	99.9%		
UA abv Eu	<b>Golden Fi DM27</b>	25.0	0.1	0.0%	774.8	99.9%		
CC	<b>Black HavCC13C</b>	24.3	0.1	0.0%	774.9	99.9%	\$10	\$310
UA-blw	<b>Queen of DM71</b>	20.8	0.0	0.0%	774.9	100.0%		
MC	<b>Boston M36</b>	16.8	0.0	0.0%	774.9	100.0%		
MC	<b>Silver CromM09</b>	15.4	0.0	0.0%	775.0	100.0%		
CC	<b>Queen AnCC01A</b>	12.1	0.0	0.0%	775.0	100.0%	\$10	\$310
UA-blw	<b>Joseph N DM75</b>	12.0	0.0	0.0%	775.0	100.0%		
UA-blw	<b>MoonbearDM35</b>	11.6	0.0	0.0%	775.1	100.0%		
UA-blw	<b>above BuI0200-01</b>	11.6	0.0	0.0%	775.1	100.0%		
UA-blw	<b>PittsburghA71</b>	9.0	0.0	0.0%	775.1	100.0%	\$0	\$0
UA-blw	<b>Unknown DM72</b>	8.5	0.0	0.0%	775.1	100.0%		
UA-blw	<b>Mighty McA69</b>	7.3	0.0	0.0%	775.1	100.0%		
UA-blw	<b>Bavarian DM33</b>	7.0	0.0	0.0%	775.2	100.0%		
UA-blw	<b>Royal TigDM63</b>	5.9	0.0	0.0%	775.2	100.0%	\$300	\$600
UA abv Eu	<b>London MA07LM</b>	5.9	0.0	0.0%	775.2	100.0%	\$300	\$600
UA abv Eu	<b>VermillionA16</b>	5.5	0.0	0.0%	775.2	100.0%	\$300	\$600
UA abv Eu	<b>Sound De DM26</b>	5.0	0.0	0.0%	775.2	100.0%	\$360	\$960
UA-blw	<b>Silver Sta DM43</b>	3.8	0.0	0.0%	775.2	100.0%		
UA-blw	<b>Ben FrankDM32</b>	3.4	0.0	0.0%	775.2	100.0%		
UA abv Eu	<b>Tom MoorDM22</b>	2.9	0.0	0.0%	775.2	100.0%	\$0	\$0
CC	<b>Mine 1/2 nCC10B</b>	2.8	0.0	0.0%	775.2	100.0%		
UA abv Eu	<b>Early BirdDM4</b>	2.2	0.0	0.0%	775.2	100.0%		
UA-blw	<b>S side EuI0264-01</b>	1.3	0.0	0.0%	775.2	100.0%		
MC	<b>Little DorM37</b>	1.9	0.0	0.0%	775.2	100.0%	\$300	\$1,300
UA-blw	<b>Marcelle M0191-01</b>	1.6	0.0	0.0%	775.2	100.0%		
UA abv Eu	<b>London MA07LMS</b>	1.4	0.0	0.0%	775.2	100.0%		

UA abv Eu	Riverside DM9	1.0	0.0	0.0%	775.3	100.0%		
UA abv Eu	Toltec MirDM29	1.0	0.0	0.0%	775.3	100.0%		
UA-blw	Jess MineDM77	0.9	0.0	0.0%	775.3	100.0%		
UA abv Eu	Unknown DM1	0.7	0.0	0.0%	775.3	100.0%		
UA-blw	Emma MirDM47	0.6	0.0	0.0%	775.3	100.0%		
UA-blw	Upper Ma0099-01	0.3	0.0	0.0%	775.3	100.0%		
UA-blw	South lowDM79	0.3	0.0	0.0%	775.3	100.0%		
UA-blw	adit near 1DM50	0.2	0.0	0.0%	775.3	100.0%		
UA abv Eu	Little Ida DM14	0.1	0.0	0.0%	775.3	100.0%		
UA abv Eu	Prospect IDM31	0.1	0.0	0.0%	775.3	100.0%		
UA abv Eu	Indian ChiDM28	0.1	0.0	0.0%	775.3	100.0%		
UA-blw	Green MtrDM52	0.1	0.0	0.0%	775.3	100.0%		
UA-blw	Little CasiDM73	0.0	0.0	0.0%	775.3	100.0%		
UA abv Eu	Burrows IA17a	0.0	0.0	0.0%	775.3	100.0%		
UA-blw	King Solo DM59	0.0	0.0	0.0%	775.3	100.0%		
UA-blw	Upper Ma0098-01	0.0	0.0	0.0%	775.3	100.0%		
UA abv Eu	Unknown DM30	0.0	0.0	0.0%	775.3	100.0%		
UA abv Eu	Prairie DM8	0.0	0.0	0.0%	775.3	100.0%		
		0.0	0.0	0.0%	775.3	100.0%		
UA-blw	Pride of tA50	0.0	0.0	0.0%	775.3	100.0%	\$60	\$360
UA-blw	Aspen A63a	0.0	0.0	0.0%	775.3	100.0%	\$120	\$1,420
UA-blw	Old HundIA49	0.0	0.0	0.0%	775.3	100.0%	\$120	\$1,420
UA abv Eu	Burrows IA17b	0.0	0.0	0.0%	775.3	100.0%		
CC	Adit belovCC02G	0.0	0.0	0.0%	775.3	100.0%		
UA abv Eu	Treasure IA26B	0.0	0.0	0.0%	775.3	100.0%		
UA-blw	Bradley tuDM54	0.0	0.0	0.0%	775.3	100.0%		
UA-blw	Innis TunrDM53	0.0	0.0	0.0%	775.3	100.0%		
UA-blw	Argentine DM78	0.0	0.0	0.0%	775.3	100.0%		
MC	U.S.Basin M07C	0.0	0.0	0.0%	775.3	100.0%		
UA-blw	Iowa DM62	0.0	0.0	0.0%	775.3	100.0%		
UA-blw	Black PrirDM60	0.0	0.0	0.0%	775.3	100.0%		
UA-blw	Valley ForDM57	0.0	0.0	0.0%	775.3	100.0%		
UA-blw	Ezra DM58	0.0	0.0	0.0%	775.3	100.0%		
UA-blw	Midway TiDM74	0.0	0.0	0.0%	775.3	100.0%		
UA-blw	Esmerald:DM40	0.0	0.0	0.0%	775.3	100.0%		
UA-blw	Midway MDM34	0.0	0.0	0.0%	775.3	100.0%		
UA-blw	0321-01	0.0	0.0	0.0%	775.3	100.0%		
UA abv Eu	London NDM5	0.0	0.0	0.0%	775.3	100.0%		
CC	Red & BoCC03C	0.0	0.0	0.0%	775.3	100.0%		
CC	Henrietta CC24G	0.0	0.0	0.0%	775.3	100.0%		
CC	Lark MineCC24D	0.0	0.0	0.0%	775.3	100.0%		
CC	Mine SoutCC02E	0.0	0.0	0.0%	775.3	100.0%		
CC	Kansas CiCC30D	0.0	0.0	0.0%	775.3	100.0%		
CC	Kansas CiCC30E	0.0	0.0	0.0%	775.3	100.0%		
MC	Adit 103-NM27F	0.0	0.0	0.0%	775.3	100.0%		
UA abv Eu	Upper CoA21D	0.0	0.0	0.0%	775.3	100.0%		
UA abv Eu	Gold PrintA23a	0.0	0.0	0.0%	775.3	100.0%		
UA-blw	Ridgeway 0199-01	0.0	0.0	0.0%	775.3	100.0%		
MC	INDEPENIM21H	0.0	0.0	0.0%	775.3	100.0%		

<b>Total</b>	351658.9	775.3	100.0%
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CC	<b>Small dun?</b>	0.0
CC	<b>HandcockCC47B</b>	NA
CC	<b>AvalanchCC30K</b>	NA
CC	<b>Georgia GCC30L</b>	NA
MC	<b>Adit S. ChM10B</b>	NA
MC	<b>Paradise /M16D</b>	NA
MC	<b>Adit 104-VM27D</b>	NA
MC	<b>Bullion King</b>	NA
MC	<b>Burbank FM26B</b>	NA
MC	<b>Paradise /M16B</b>	NA
MC	<b>Ensle TunM26C</b>	NA
MC	<b>1st SW MIM18B</b>	NA
MC	<b>Adit E.of FM27DE</b>	NA
MC	<b>Paradise /M16C</b>	NA
MC	<b>U.S. BasirM07D</b>	NA
MC	<b>Brooklyn -WBG10</b>	NA
MC	<b>ChatanooM11B</b>	NA
MC	<b>Colaps adM27E</b>	NA
MC	<b>Adit 103-VM27F</b>	NA
MC	<b>Lower S.PM23B</b>	NA
UA abv Eu	<b>Toltec Vei0212-01</b>	NA
UA abv Eu	<b>Little Ida IDM-11</b>	NA
UA abv Eu	<b>Little Ida IDM-13</b>	NA
UA abv Eu	<b>N.of Cinn.0184-01</b>	NA
UA abv Eu	<b>Middle To 0218-01</b>	NA
UA abv Eu	<b>Burrows c0088-01</b>	NA
UA abv Eu	<b>N.of Cinn.0184-02</b>	NA
UA abv Eu	<b>Adit oppo 0169-01</b>	NA
UA-blw	<b>Lower RaiDM69</b>	NA
UA-blw	<b>Kitti MackDM68</b>	NA
UA-blw	<b>ShenandoDM55</b>	NA
UA-blw	<b>Upper lowDM61</b>	NA
UA-blw	<b>ChampionDM76</b>	NA
UA-blw	<b>SF Eureka0207-01</b>	NA
UA-blw	<b>ProgressiDM42</b>	NA
UA-blw	<b>Adit adj. F0164-01</b>	NA
UA-blw	<b>Little CasiDM73</b>	NA
UA-blw	<b>Adit W. &amp;0079-01</b>	NA
UA-blw	<b>Adit 1/8mi0024-01</b>	NA
UA-blw	<b>Upper Mir0025-02</b>	NA
UA-blw	<b>Little MauDM41</b>	NA
UA-blw	<b>Adit 3/4 m0025-01</b>	NA

Reduction per technology:

Bulkhead = 50%

Passive Treatment = 30%

Active = 85%

Phase 1 costs per site	Phase 2 Costs per site	%Reductions		Load Removed in #'s/day		
Phase 1 costs per site	Phase 2 Costs per site	Phase 1	Phase 2	Phase 1	Cumulative Phase 2 phase 1	
60	300	50	50	131.84	131.84	131.84
60	1000	0	50	0.00	131.84	122.78
300	300	50	50	27.81	159.65	27.81
300		50	50	15.83	175.48	15.83
300	300	30	50	6.98	182.45	11.63
60	300	30	50	4.77	187.22	7.94
60	300	30	50	4.46	191.68	7.44
		0	0	0.00	191.68	0.00
60	1000	30	50	2.90	194.58	4.83
300	300	30	50	2.44	197.02	4.06
300	10	30	50	2.34	199.35	3.90
	60	300	50	3.61	202.96	3.61
		50	50	2.88	205.84	2.88
300	1000	50	50	2.88	208.72	2.88
1000	300	80	50	4.18	212.90	2.61
		50	50	2.45	215.35	2.45
		0	0	0.00	215.35	0.00
		85	85	3.87	219.22	3.87
300		50	50	2.16	221.38	2.16
300	300	30	50	1.22	222.60	2.03
1000	0	50	50	1.67	224.27	1.67
		0	50	0.00	224.27	1.64
300	1000	50	30	1.48	225.75	0.89
		30	30	0.72	226.47	0.72
300	1000	50	90	1.20	227.67	2.16
10	300	30	50	0.72	228.39	1.20
		0	50	0.00	228.39	1.04
300	300	30	50	0.62	229.01	1.04
60	1000	30	50	0.60	229.61	0.99
300	300	50	50	0.98	230.59	0.98
		0	0	0.00	230.59	0.00
60		50	50	0.81	231.40	0.81
10	300	0	50	0.00	231.40	0.69
		0	0	0.00	231.40	0.00

300	300	50	30	0.63	232.03	0.38
300		50	50	0.60	232.63	0.60
300	300	30	50	0.30	232.93	0.50
60	300	30	50	0.30	233.23	0.50
60		50	50	0.31	233.54	0.31
0	300	30	85	0.16	233.69	0.45
		30	50	0.13	233.83	0.22
300	10	30	30	0.11	233.94	0.11
		0	0	0.00	233.94	0.00
		0	0	0.00	233.94	0.00
300	300	50	50	0.12	234.06	0.12
		0	0	0.00	234.06	0.00
60		30	0	0.06	234.13	0.00
		0	0	0.00	234.13	0.00
300	300	30	50	0.06	234.19	0.10
		0	0	0.00	234.19	0.00
		50	50	0.06	234.24	0.06
60	300	50	80	0.05	234.30	0.08
		30	30	0.03	234.33	0.03
		0	0	0.00	234.33	0.00
		30	50	0.02	234.35	0.04
60	1000	0	50	0.00	234.35	0.03
		50	50	0.03	234.38	0.03
		50	50	0.03	234.41	0.03
10	300	0	50	0.00	234.41	0.03
		0	0	0.00	234.41	0.00
		0	0	0.00	234.41	0.00
10	300	0	50	0.00	234.41	0.01
		0	0	0.00	234.41	0.00
		50	50	0.01	234.42	0.01
0		0	0	0.00	234.42	0.00
		0	0	0.00	234.42	0.00
		0	0	0.00	234.42	0.00
		50	0	0.01	234.43	0.00
300	300	50	80	0.01	234.43	0.01
0		0	0	0.00	234.43	0.00
0		0	0	0.00	234.43	0.00
60	300	50	50	0.01	234.44	0.01
		0	0	0.00	234.44	0.00
		50	50	0.00	234.44	0.00
0		0	0	0.00	234.44	0.00
		0	50	0.00	234.44	0.00
		0	0	0.00	234.44	0.00
300	1000	50	85	0.00	234.44	0.00
		0	0	0.00	234.44	0.00
		0	0	0.00	234.44	0.00

		0		0.00	234.44	0.00
		0		0.00	234.44	0.00
		0		0.00	234.44	0.00
		50	50	0.00	234.44	0.00
		0		0.00	234.44	0.00
		0		0.00	234.44	0.00
		50	50	0.00	234.45	0.00
		0		0.00	234.45	0.00
		0	0	0.00	234.45	0.00
		0	0	0.00	234.45	0.00
		30	30	0.00	234.45	0.00
		30		0.00	234.45	0.00
		0	0	0.00	234.45	0.00
		0	0	0.00	234.45	0.00
		0		0.00	234.45	0.00
		0		0.00	234.45	0.00
		0		0.00	234.45	0.00
		0		0.00	234.45	0.00
		60	300	30	50	0.00
		60	1000	30	85	0.00
0		0	0	0.00	234.45	0.00
		0	0	0.00	234.45	0.00
		0		0.00	234.45	0.00
		0	50	0.00	234.45	0.00
		30	50	0.00	234.45	0.00
		0	0	0.00	234.45	0.00
		0		0.00	234.45	0.00
		0	0	0.00	234.45	0.00
		0	0	0.00	234.45	0.00
		0		0.00	234.45	0.00
		0		0.00	234.45	0.00
		0		0.00	234.45	0.00
		0		0.00	234.45	0.00
		0		0.00	234.45	0.00
		30	30	0.00	234.45	0.00
		50	85	0.00	234.45	0.00
		50	50	0.00	234.45	0.00
		0	0	0.00	234.45	0.00
		0	0	0.00	234.45	0.00
		0		0.00	234.45	0.00
		0	50	0.00	234.45	0.00
		0	0	0.00	234.45	0.00
		0		0.00	234.45	0.00
		50	50	0.00	234.45	0.00

		0.00	234.45	0.00
		0.00	234.45	0.00
		0.00	234.45	0.00
	0	?	0.00	234.45
	0	50		
	30	30		
	0	50		
	30	50		
	0	0		
	0	0		
	30	50		
	0	50		
	0	50		
	0	0		
	0	0		
	0	?		
	0	0		
	0	0		
	0	0		
	0	0		
	0	0		
	0	0		
	0	0		
	50	85		
	0	0		
	0	0		
	0	0		
	0	0		
	0	0		
	0	0		
	0	0		
	0	0		
	0	0		
	30	30		
	0			
	0			
	0			
	0			

**CUMULATIVE ADIT LOADING, REDUCTIONS AND COSTS - ZINC**

(0 values = below detection limit)

2/21/2001

Basin	ARSG Designation NEW DESite #	Zn value (grams/d)	Zn value (lbs/d)	Low Flow Loading			Reduction Costs		
				Percent of Total	Adit Loading (lbs/d)	Cumulative Loading (lbs/d)	Cumulative reductions		Cum.Costs phase 1 x \$1000
							percentage	x \$1000	
MC	Kohler adit M02K	35305.2	77.8	58.1%	77.8	58.1%		\$60	\$360
CC	Red & Bonita		61.9						
CC	Gold King		60.3						
CC	American tunnel		26.4						
CC	Mogul		21.1						
MC	Bandora adit M24	1823.0	4.0	3.0%	81.9	61.1%	\$120	\$1,420	
UA abv Eu	Columbus DM20	1818.0	4.0	3.0%	85.9	64.1%	\$420	\$2,020	
CC	Silver Lead CC14	1483.7	3.3	2.4%	89.1	66.5%	\$720	\$2,620	
CC	Mogul adit CC02D	1439.6	3.2	2.4%	92.3	68.9%	\$1,720	\$3,920	
MC	North Star M31	1434.6	3.2	2.4%	95.5	71.2%	\$2,020	\$5,220	
UA abv Eu	Vermillion DM17	1302.8	2.9	2.1%	98.3	73.4%	\$2,320	\$5,520	
UA abv Eu	Bagley TuA12	1196.4	2.6	2.0%	101.0	75.3%	\$2,620	\$6,120	
UA-blw	Pride of the A50	1118.9	2.5	1.8%	103.4	77.2%	\$2,680	\$6,480	
MC	Paradise adit M16	943.0	2.1	1.6%	105.5	78.7%	\$2,740	\$7,540	
MC	Brooklyn adit M12C	938.3	2.1	1.5%	107.6	80.3%	\$3,040	\$8,140	
UA abv Eu	Senator adit DM24	750.6	1.7	1.2%	109.2	81.5%	\$3,340	\$8,740	
UA abv Eu	N side of I0219-01	694.3	1.5	1.1%	110.8	82.7%	\$3,400	\$9,100	
CC	Anglo-Sax CC37	659.1	1.5	1.1%	112.2	83.7%	\$3,460	\$9,460	
MC	Upper Boi adit M21F	652.9	1.4	1.1%	113.7	84.8%	\$3,760	\$10,760	
UA-blw	Aspen adit A63a	610.4	1.3	1.0%	115.0	85.8%	\$3,820	\$11,820	
MC	Ferrocret adit M13D	483.3	1.1	0.8%	116.1	86.6%	\$4,120	\$12,120	
CC	Porcupine adit CC38B	466.1	1.0	0.8%	117.1	87.4%	\$4,180	\$13,180	
CC	Grand Mo adit CC01C	459.3	1.0	0.8%	118.1	88.1%	\$4,240	\$14,240	
CC	Lewis adit pro CC01P	436.4	1.0	0.7%	119.1	88.9%	\$4,300	\$14,300	
UA abv Eu	Silver King A29	419.6	0.9	0.7%	120.0	89.5%	\$4,300	\$14,600	
UA abv Eu	Lower Coal A21A	416.4	0.9	0.7%	120.9	90.2%	\$4,310	\$14,910	
MC	Lower Boi adit M21D	350.1	0.8	0.6%	121.7	90.8%	\$4,610	\$15,510	
UA abv Eu	Vermillion A16	343.3	0.8	0.6%	122.5	91.4%	\$4,610	\$15,510	
CC	Yukon adit Mir CC43C	291.8	0.6	0.5%	123.1	91.9%	\$4,670	\$15,870	
CC	Black Hawk adit CC13C	285.1	0.6	0.5%	123.7	92.3%	\$4,680	\$16,180	
CC	Queen adit An CC01A	280.8	0.6	0.5%	124.3	92.8%	\$4,690	\$16,490	
UA-blw	Old Hund adit A49	242.3	0.5	0.4%	124.9	93.2%	\$4,690	\$16,490	
UA abv Eu	Lucky Jack adit A02B	228.5	0.5	0.4%	125.4	93.6%	\$4,750	\$16,850	
MC	Bonner adit M21B	223.4	0.5	0.4%	125.9	93.9%	\$5,050	\$17,450	
MC	Adit 104-VM27D	223.1	0.5	0.4%	126.4	94.3%	\$5,050	\$17,450	
MC	Ruby adit Trus M17B	190.2	0.4	0.3%	126.8	94.6%	\$5,350	\$17,750	
CC	Elk tunnel adit CC32	190.0	0.4	0.3%	127.2	94.9%	\$5,650	\$18,060	
UA abv Eu	Sound adit De DM26	184.4	0.4	0.3%	127.6	95.2%	\$5,710	\$18,420	

CC	MammothCC29B	178.0	0.4	0.3%	128.0	95.5%	\$5,770	\$18,780
UA-blw	Little NatiDM56	171.8	0.4	0.3%	128.4	95.8%	\$6,070	\$19,380
UA-blw	Royal TigDM63	168.1	0.4	0.3%	128.8	96.1%	\$6,370	\$19,980
UA abv	EuTom MoorDM22	154.8	0.3	0.3%	129.1	96.3%	\$6,370	\$19,980
CC	Monarch ICC38C	149.2	0.3	0.2%	129.4	96.6%	\$6,380	\$20,290
MC	Lower BoIM21	149.1	0.3	0.2%	129.8	96.8%	\$6,380	\$20,290
MC	Junction IM02B	146.7	0.3	0.2%	130.1	97.1%	\$6,680	\$21,590
UA abv	EuLondon MA07LM	129.4	0.3	0.2%	130.4	97.3%	\$6,680	\$21,590
UA-blw	PittsburgA71	122.8	0.3	0.2%	130.6	97.5%	\$6,680	\$21,590
CC	Unnamed adit between Mogul A	94.9	0.2	0.2%	130.8	97.6%	\$6,740	\$21,650
UA-blw	Auburn DM36	88.5	0.2	0.1%	131.0	97.8%	\$6,800	\$21,710
CC	Evelyn MiCC21C	85.3	0.2	0.1%	131.2	97.9%	\$7,800	\$22,710
UA-blw	Hamlet DM39	81.7	0.2	0.1%	131.4	98.1%	\$8,100	\$23,020
CC	Joe & JohCC25C	80.5	0.2	0.1%	131.6	98.2%	\$8,400	\$23,620
UA abv	EuMountain A19a	79.0	0.2	0.1%	131.8	98.3%	\$8,700	\$24,220
MC	Little DorM37	77.0	0.2	0.1%	131.9	98.4%	\$9,000	\$25,520
MC	Anvil Mtn.M33B	71.2	0.2	0.1%	132.1	98.6%		
UA-blw	Mighty McA69	63.2	0.1	0.1%	132.2	98.7%		
UA abv	EuLittle ChieDM3	58.2	0.1	0.1%	132.4	98.8%		
UA-blw	MoonbearDM35	58.2	0.1	0.1%	132.5	98.9%		
CC	Big Color:CC16C	56.1	0.1	0.1%	132.6	98.9%		
UA-blw	Forest QuA41	52.0	0.1	0.1%	132.7	99.0%		
UA abv	EuBurrows IA17b	50.9	0.1	0.1%	132.8	99.1%		
MC	Imogene IM13B	50.2	0.1	0.1%	132.9	99.2%		
CC	OccidentaCC13D	42.7	0.1	0.1%	133.0	99.3%		
CC	Adit belovCC02G	38.5	0.1	0.1%	133.1	99.3%		
UA-blw	South lowDM79	36.5	0.1	0.1%	133.2	99.4%		
UA abv	EuTreasure IA26B	28.6	0.1	0.0%	133.3	99.4%		
UA abv	EuBurrows IA17a	28.0	0.1	0.0%	133.3	99.5%		
UA abv	EuGolden FlDM27	24.6	0.1	0.0%	133.4	99.5%		
MC	INDEPENDIM21H	22.6	0.0	0.0%	133.4	99.6%		
MC	Upper BrcM12F	20.6	0.0	0.0%	133.5	99.6%		
MC	Boston M36	18.8	0.0	0.0%	133.5	99.6%		
UA-blw	Green MtrDM52	18.5	0.0	0.0%	133.6	99.7%		
MC	COLLAPSM22B	15.9	0.0	0.0%	133.6	99.7%		
MC	Silver CroM09	14.7	0.0	0.0%	133.6	99.7%		
UA abv	EuSilver QuDM25	14.4	0.0	0.0%	133.7	99.7%		
UA-blw	Ben FrankDM32	13.8	0.0	0.0%	133.7	99.8%		
UA-blw	Bradley tuDM54	12.6	0.0	0.0%	133.7	99.8%		
UA-blw	Unknown DM37	12.5	0.0	0.0%	133.7	99.8%		
UA-blw	Last ChanDM66	12.2	0.0	0.0%	133.8	99.8%		
UA-blw	Unknown DM38	9.2	0.0	0.0%	133.8	99.8%		
UA-blw	Innis TunDM53	8.3	0.0	0.0%	133.8	99.8%		
UA-blw	Hidden TrDM44	7.9	0.0	0.0%	133.8	99.9%		
CC	Mine 1/2 nCC10B	7.7	0.0	0.0%	133.8	99.9%		
CC	Adit belovCC30J	7.7	0.0	0.0%	133.9	99.9%		
UA abv	EuLittle Ida DM14	7.6	0.0	0.0%	133.9	99.9%		
UA-blw	Bavarian DM33	5.6	0.0	0.0%	133.9	99.9%		
UA-blw	Little CasiDM73	4.4	0.0	0.0%	133.9	99.9%		

UA abv Eu	<b>London MA07LMS</b>	4.4	0.0	0.0%	133.9	99.9%
UA-blw	<b>Silver Sta DM43</b>	3.8	0.0	0.0%	133.9	99.9%
UA-blw	<b>Oyama tu DM49</b>	3.7	0.0	0.0%	133.9	99.9%
UA abv Eu	<b>Unknown DM1</b>	3.6	0.0	0.0%	133.9	99.9%
UA-blw	<b>Argentine DM78</b>	3.4	0.0	0.0%	133.9	99.9%
MC	<b>U.S.Basin M07C</b>	2.8	0.0	0.0%	133.9	99.9%
UA abv Eu	<b>Prospect DM31</b>	2.6	0.0	0.0%	134.0	100.0%
UA-blw	<b>Emma Mir DM47</b>	2.6	0.0	0.0%	134.0	100.0%
UA-blw	<b>Joseph N DM75</b>	2.5	0.0	0.0%	134.0	100.0%
UA abv Eu	<b>Prairie DM8</b>	2.3	0.0	0.0%	134.0	100.0%
UA abv Eu	<b>Indian Chi DM28</b>	2.2	0.0	0.0%	134.0	100.0%
UA-blw	<b>Iowa DM62</b>	2.1	0.0	0.0%	134.0	100.0%
UA-blw	<b>Black Prr DM60</b>	2.1	0.0	0.0%	134.0	100.0%
UA-blw	<b>Valley For DM57</b>	1.9	0.0	0.0%	134.0	100.0%
UA-blw	<b>Marcelle M0191-01</b>	1.7	0.0	0.0%	134.0	100.0%
UA-blw	<b>Ezra DM58</b>	1.7	0.0	0.0%	134.0	100.0%
UA abv Eu	<b>Early Bird DM4</b>	1.7	0.0	0.0%	134.0	100.0%
UA-blw	<b>Midway Ti DM74</b>	1.5	0.0	0.0%	134.0	100.0%
CC	<b>River righ ?</b>	1.2	0.0	0.0%	134.0	100.0%
UA-blw	<b>Queen of DM71</b>	1.0	0.0	0.0%	134.0	100.0%
UA abv Eu	<b>Unknown DM30</b>	0.9	0.0	0.0%	134.0	100.0%
UA-blw	<b>Smuggler DM46</b>	0.8	0.0	0.0%	134.0	100.0%
UA-blw	<b>Esmerald:DM40</b>	0.8	0.0	0.0%	134.0	100.0%
UA-blw	<b>Jess Mine DM77</b>	0.7	0.0	0.0%	134.0	100.0%
UA-blw	<b>King Solo DM59</b>	0.4	0.0	0.0%	134.0	100.0%
CC	<b>*Adit abo CC15B</b>	0.4	0.0	0.0%	134.0	100.0%
UA-blw	<b>Unknown DM72</b>	0.3	0.0	0.0%	134.0	100.0%
UA-blw	<b>Midway MDM34</b>	0.2	0.0	0.0%	134.0	100.0%
UA-blw	<b>Upper Ma 0099-01</b>	0.2	0.0	0.0%	134.0	100.0%
UA-blw	<b>S side Eu 0264-01</b>	0.2	0.0	0.0%	134.0	100.0%
UA-blw	<b>adit near t DM50</b>	0.1	0.0	0.0%	134.0	100.0%
UA-blw	<b>above Bu 0200-01</b>	0.1	0.0	0.0%	134.0	100.0%
UA abv Eu	<b>Toltec Mir DM29</b>	0.1	0.0	0.0%	134.0	100.0%
UA-blw	<b>0321-01</b>	0.1	0.0	0.0%	134.0	100.0%
UA abv Eu	<b>Riverside DM9</b>	0.1	0.0	0.0%	134.0	100.0%
UA-blw	<b>Upper Ma 0098-01</b>	0.0	0.0	0.0%	134.0	100.0%
UA abv Eu	<b>London NDM5</b>	0.0	0.0	0.0%	134.0	100.0%
		0.1	0.0	0.0%	134.0	100.0%
CC	<b>Red &amp; Bo CC03C</b>	0.0	0.0	0.0%	134.0	100.0%
CC	<b>Henrietta CC24G</b>	0.0	0.0	0.0%	134.0	100.0%
CC	<b>Lark Mine CC24D</b>	0.0	0.0	0.0%	134.0	100.0%
CC	<b>Mine Sout CC02E</b>	0.0	0.0	0.0%	134.0	100.0%
CC	<b>Kansas Ci CC30D</b>	0.0	0.0	0.0%	134.0	100.0%
CC	<b>Kansas Ci CC30E</b>	0.0	0.0	0.0%	134.0	100.0%
MC	<b>Adit 103-MM27F</b>	0.0	0.0	0.0%	134.0	100.0%
UA abv Eu	<b>Upper Co A21D</b>	0.0	0.0	0.0%	134.0	100.0%
UA abv Eu	<b>Gold Prin A23a</b>	0.0	0.0	0.0%	134.0	100.0%
UA-blw	<b>Blair Mtn. DM65</b>	0.0	0.0	0.0%	134.0	100.0%
UA-blw	<b>Ridgeway 0199-01</b>	0.0	0.0	0.0%	134.0	100.0%

<b>Total</b>	60790.4	134.0	100.0%
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CC	<b>Small dun?</b>	0.0
CC	<b>HandcockCC47B</b>	NA
CC	<b>AvalanchCC30K</b>	NA
CC	<b>Georgia GCC30L</b>	NA
MC	<b>Adit S. ChM10B</b>	NA
MC	<b>Paradise /M16D</b>	NA
MC	<b>Adit 104-VM27D</b>	NA
MC	<b>Bullion King</b>	NA
MC	<b>Burbank FM26B</b>	NA
MC	<b>Paradise /M16B</b>	NA
MC	<b>Ensle TunM26C</b>	NA
MC	<b>1st SW MIM18B</b>	NA
MC	<b>Adit E.of FM27DE</b>	NA
MC	<b>Paradise /M16C</b>	NA
MC	<b>U.S. BasirM07D</b>	NA
MC	<b>Brooklyn -WBG10</b>	NA
MC	<b>ChatanooM11B</b>	NA
MC	<b>Colaps adM27E</b>	NA
MC	<b>Adit 103-VM27F</b>	NA
MC	<b>Lower S.PM23B</b>	NA
UA abv Eu	<b>Toltec Vei0212-01</b>	NA
UA abv Eu	<b>Little Ida IDM-11</b>	NA
UA abv Eu	<b>Little Ida IDM-13</b>	NA
UA abv Eu	<b>N.of Cinn.0184-01</b>	NA
UA abv Eu	<b>Middle To 0218-01</b>	NA
UA abv Eu	<b>Burrows c0088-01</b>	NA
UA abv Eu	<b>N.of Cinn.0184-02</b>	NA
UA abv Eu	<b>Adit oppo 0169-01</b>	NA
UA-blw	<b>Lower RaiDM69</b>	NA
UA-blw	<b>Kitti MackDM68</b>	NA
UA-blw	<b>ShenandoDM55</b>	NA
UA-blw	<b>Upper lowDM61</b>	NA
UA-blw	<b>ChampionDM76</b>	NA
UA-blw	<b>SF Eureka0207-01</b>	NA
UA-blw	<b>ProgressiDM42</b>	NA
UA-blw	<b>Adit adj. F0164-01</b>	NA
UA-blw	<b>Little CasiDM73</b>	NA
UA-blw	<b>Adit W. &amp;0079-01</b>	NA
UA-blw	<b>Adit 1/8mi0024-01</b>	NA
UA-blw	<b>Upper Mir0025-02</b>	NA
UA-blw	<b>Little MauDM41</b>	NA
UA-blw	<b>Adit 3/4 m0025-01</b>	NA

Reduction per technology:

Bulkhead = 50%

Passive Treatment = 30%

Active = 85%

Phase 1 costs per site	Phase 2 Costs per site	% Reductions Phase 1	Phase 2	Load Removed in #'s/day Phase 1	Cumulative phase 1	Phase 2	Cost per pound phase 1	Cost per pound phase 1+2
60	300	50	50	38.92	38.92	38.92	\$1.54	\$9.25
60	1000	30	50	1.21	40.13	2.01	\$2.99	\$35.39
300	300	50	30	2.00	42.13	1.20	\$9.97	\$47.94
300	300	50	50	1.64	43.77	1.64	\$16.45	\$59.86
1000	300	80	50	2.54	46.31	1.59	\$37.14	\$84.65
300	1000	50	50	1.58	47.89	1.58	\$42.18	\$109.00
300		50	50	1.44	49.33	1.44	\$47.03	\$111.91
300	300	30	50	0.79	50.12	1.32	\$52.28	\$122.11
60	300	30	50	0.74	50.86	1.23	\$52.69	\$127.41
60	1000	0	50	0.00	50.86	1.04	\$53.87	\$148.25
300	300	30	50	0.62	51.48	1.03	\$59.05	\$158.12
300	300	30	50	0.50	51.98	0.83	\$64.26	\$168.15
60	300	30	50	0.46	52.44	0.77	\$64.84	\$173.55
60	300	30	50	0.44	52.87	0.73	\$65.44	\$178.92
300	1000	50	90	0.72	53.59	1.30	\$70.16	\$200.78
60	1000	30	85	0.40	54.00	1.14	\$70.75	\$218.91
300		50	50	0.53	54.53	0.53	\$75.56	\$222.27
60	1000	30	50	0.31	54.84	0.51	\$76.23	\$240.35
60	1000	0	50	0.00	54.84	0.51	\$77.32	\$259.68
60		50	50	0.48	55.32	0.48	\$77.73	\$258.51
0	300	30	85	0.28	55.60	0.79	\$77.34	\$262.61
10	300	0	50	0.00	55.60	0.46	\$77.52	\$268.19
300	300	30	50	0.23	55.83	0.39	\$82.58	\$277.82
0		0	0	0.00	55.83	0.00	\$82.58	\$277.82
60	300	50	50	0.32	56.15	0.32	\$83.17	\$282.64
10	300	0	50	0.00	56.15	0.31	\$83.35	\$288.16
10	300	0	50	0.00	56.15	0.31	\$83.53	\$293.69
0		0	0	0.00	56.15	0.00	\$83.53	\$293.69
60	300	50	80	0.25	56.40	0.40	\$84.22	\$298.76
300	300	50	50	0.25	56.65	0.25	\$89.15	\$308.05
		0	0	0.00	56.65	0.00	\$89.15	\$308.05
300		50	50	0.21	56.86	0.21	\$94.10	\$312.19
300	10	30	50	0.13	56.98	0.21	\$99.15	\$316.94
60	300	50	50	0.20	57.19	0.20	\$99.85	\$322.11

60	300	30	50	0.12	57.30	0.20	\$100.69	\$327.73
300	300	30	50	0.11	57.42	0.19	\$105.72	\$337.53
300	300	50	80	0.19	57.60	0.30	\$110.59	\$346.86
0	0	0	0	0.00	57.60	0.00	\$110.59	\$346.86
10	300	30	50	0.10	57.70	0.16	\$110.57	\$351.64
	0	0	0	0.00	57.70	0.00	\$110.57	\$351.64
300	1000	50	30	0.16	57.86	0.10	\$115.45	\$373.13
0	0	0	0	0.00	57.86	0.00	\$115.45	\$373.13
0	0	0	0	0.00	57.86	0.00	\$115.45	\$373.13
60		50	50	0.10	57.97	0.10	\$116.27	\$373.49
60		30	0	0.06	58.03	0.00	\$117.19	\$374.14
1000	0	50	50	0.09	58.12	0.09	\$134.21	\$390.74
300	10	30	30	0.05	58.17	0.05	\$139.24	\$395.71
300	300	30	50	0.05	58.23	0.09	\$144.26	\$405.65
300	300	50	50	0.09	58.31	0.09	\$149.19	\$415.34
300	1000	50	85	0.08	58.40	0.14	\$154.11	\$436.99
	0	0	0	0.00	58.40	0.00	\$0.00	\$0.00
	0	0	0	0.00	58.40	0.00	\$0.00	\$0.00
	50	50	0.06	58.46	0.06	\$0.00	\$0.00	\$0.00
	50	50	0.06	58.53	0.06	\$0.00	\$0.00	\$0.00
	50	50	0.06	58.59	0.06	\$0.00	\$0.00	\$0.00
	85	85	0.10	58.69	0.10	\$0.00	\$0.00	\$0.00
	0	0	0.00	58.69	0.00	\$0.00	\$0.00	\$0.00
	50	50	0.06	58.74	0.06	\$0.00	\$0.00	\$0.00
	0	50	0.00	58.74	0.05	\$0.00	\$0.00	\$0.00
	0	0	0.00	58.74	0.00	\$0.00	\$0.00	\$0.00
	50	50	0.04	58.78	0.04	\$0.00	\$0.00	\$0.00
	0	50	0.00	58.78	0.03	\$0.00	\$0.00	\$0.00
	0	0	0.00	58.78	0.00	\$0.00	\$0.00	\$0.00
	50	50	0.03	58.81	0.03	\$0.00	\$0.00	\$0.00
	50	50	0.02	58.83	0.02	\$0.00	\$0.00	\$0.00
	30	50	0.01	58.85	0.02	\$0.00	\$0.00	\$0.00
	0	0	0.00	58.85	0.00	\$0.00	\$0.00	\$0.00
	30	30	0.01	58.86	0.01	\$0.00	\$0.00	\$0.00
	0	0	0.00	58.86	0.00	\$0.00	\$0.00	\$0.00
	0	0	0.00	58.86	0.00	\$0.00	\$0.00	\$0.00
	50	50	0.02	58.88	0.02	\$0.00	\$0.00	\$0.00
	50	50	0.02	58.89	0.02	\$0.00	\$0.00	\$0.00
	30	50	0.01	58.90	0.01	\$0.00	\$0.00	\$0.00
	30	30	0.01	58.91	0.01	\$0.00	\$0.00	\$0.00
	0	0	0.00	58.91	0.00	\$0.00	\$0.00	\$0.00
	30	30	0.01	58.91	0.01	\$0.00	\$0.00	\$0.00
	0	0	0.00	58.91	0.00	\$0.00	\$0.00	\$0.00
	0	0	0.00	58.91	0.00	\$0.00	\$0.00	\$0.00
	0	50	0.00	58.91	0.01	\$0.00	\$0.00	\$0.00
	0	50	0.00	58.91	0.01	\$0.00	\$0.00	\$0.00
	0	0	0.00	58.91	0.00	\$0.00	\$0.00	\$0.00
	50	0	0.01	58.92	0.00	\$0.00	\$0.00	\$0.00
	30	0	0.00	58.92	0.00	\$0.00	\$0.00	\$0.00



		0.00	58.93	0.00
		0.00	58.93	0.00
		0.00	58.93	0.00
	0	?	0.00	58.93
	0	50		
	30	30		
	0	50		
	30	50		
	0	0		
	0	0		
	30	50		
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	50	85		
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	0	0		
	0	0		
	30	30		
	0			
	0			
	0			
	0			

**CUMULATIVE ADIT LOADING, REDUCTIONS AND COSTS - COPPER**

(0 values = below detection limit)

2/21/2001

Basin	ARSG Designation	Low Flow Loading				Reduction Cos		
		NEW DESite #	Cu value (grams/d)	Cu value (lbs/d)	Percent of Total Adit Loading	Cumulative Loading (lbs/d)	Cumulative reductions	
							Cum.Cost phase 1 x \$1000	Cum. Cost phase 1+2 x \$1000
MC	Kohler adM02K	12817.4	28.3	90.3%	28.3	90.3%	\$60	\$360
CC	Gold King		10.3					
CC	Mogul CC02D	315.6	0.7	2.2%	29.0	92.6%	\$1,060	\$1,660
CC	Lewis proCC01P	168.3	0.4	1.2%	29.3	93.8%	\$1,120	\$1,720
UA abv Eu	Silver WinA29	140.1	0.3	1.0%	29.6	94.7%	\$1,120	\$2,020
MC	North StaIM31	110.0	0.2	0.8%	29.9	95.5%	\$1,420	\$3,320
MC	Brooklyn M12C	87.0	0.2	0.6%	30.1	96.1%	\$1,720	\$3,920
CC	Grand MoCC01C	81.6	0.2	0.6%	30.2	96.7%	\$1,780	\$4,980
UA abv Eu	ColumbusDM20	56.5	0.1	0.4%	30.4	97.1%	\$2,080	\$5,580
UA abv Eu	VermillionDM17	34.8	0.1	0.2%	30.4	97.3%	\$2,380	\$5,880
CC	Monarch ICC38C	34.3	0.1	0.2%	30.5	97.6%	\$2,390	\$6,190
MC	Anvil Mtn.M33B	29.6	0.1	0.2%	30.6	97.8%	\$2,390	\$6,190
UA abv Eu	Mountain A19a	27.7	0.1	0.2%	30.7	98.0%	\$2,690	\$6,790
UA-blw	Royal TigDM63	23.9	0.1	0.2%	30.7	98.2%	\$2,990	\$7,390
MC	Paradise /M16	23.4	0.1	0.2%	30.8	98.3%	\$3,050	\$8,450
MC	Junction IM02B	23.2	0.1	0.2%	30.8	98.5%	\$3,350	\$9,750
UA abv Eu	Lower CoA21A	22.2	0.0	0.2%	30.9	98.6%	\$3,360	\$10,060
CC	Silver LedCC14	21.1	0.0	0.1%	30.9	98.8%	\$3,660	\$10,660
MC	Lower BoIM21D	12.8	0.0	0.1%	30.9	98.9%	\$3,960	\$11,260
MC	Ruby TrusM17B	12.5	0.0	0.1%	31.0	99.0%	\$4,260	\$11,560
UA abv Eu	N side of I0219-01	12.3	0.0	0.1%	31.0	99.1%	\$4,320	\$11,920
CC	Queen AnCC01A	11.1	0.0	0.1%	31.0	99.1%	\$4,330	\$12,230
MC	Bonner MIM21B	10.6	0.0	0.1%	31.0	99.2%	\$4,630	\$12,830
UA-blw	Old HundA49	10.6	0.0	0.1%	31.1	99.3%	\$4,630	\$12,830
MC	Upper BoIM21F	9.1	0.0	0.1%	31.1	99.4%	\$4,930	\$14,130
MC	Bandora IM24	9.0	0.0	0.1%	31.1	99.4%	\$4,990	\$15,190
UA-blw	Pride of thA50	8.8	0.0	0.1%	31.1	99.5%	\$5,050	\$15,550
MC	Lower BoIM21	7.1	0.0	0.1%	31.1	99.5%	\$5,050	\$15,550
UA abv Eu	Sound De DM26	5.6	0.0	0.0%	31.1	99.6%	\$5,110	\$15,910
CC	Evelyn MiCC21C	5.5	0.0	0.0%	31.2	99.6%	\$6,110	\$16,910
UA-blw	Aspen A63a	5.1	0.0	0.0%	31.2	99.6%	\$6,170	\$17,970
UA abv Eu	Lucky JacA02B	4.7	0.0	0.0%	31.2	99.7%	\$6,230	\$18,330
CC	Joe & JohCC25C	4.3	0.0	0.0%	31.2	99.7%	\$6,530	\$18,930
UA abv Eu	Silver QuDM25	4.0	0.0	0.0%	31.2	99.7%	\$6,530	\$18,930
MC	Upper BrcM12F	3.6	0.0	0.0%	31.2	99.8%	\$6,530	\$18,930
CC	Big Color:CC16C	3.2	0.0	0.0%	31.2	99.8%	\$6,530	\$18,930
UA abv Eu	Senator DM24	3.2	0.0	0.0%	31.2	99.8%	\$6,830	\$19,530
CC	Anglo-SaxCC37	3.1	0.0	0.0%	31.2	99.8%	\$6,890	\$19,890

UA abv Eu	<b>Little Chie</b>	DM3	2.2	0.0	0.0%	31.2	99.8%	\$6,890	\$19,890
CC	<b>Mammoth</b>	CC29B	2.1	0.0	0.0%	31.2	99.9%	\$6,950	\$20,250
CC	<b>Unnamed adit between Mogul</b>	0	0.0	0.0%	31.2	99.9%	\$7,010	\$20,310	
UA-blw	<b>South low</b>	DM79	2.0	0.0	0.0%	31.2	99.9%	\$7,010	\$20,310
CC	<b>Adit belov</b>	CC30J	1.9	0.0	0.0%	31.2	99.9%	\$7,010	\$20,310
MC	<b>Adit 104-VM27D</b>		1.9	0.0	0.0%	31.2	99.9%	\$7,010	\$20,310
CC	<b>River righ ?</b>		1.8	0.0	0.0%	31.3	99.9%	\$7,010	\$20,310
MC	<b>Boston</b>	M36	1.7	0.0	0.0%	31.3	99.9%	\$7,010	\$20,310
UA-blw	<b>Pittsburg</b>	A71	1.3	0.0	0.0%	31.3	99.9%	\$7,010	\$20,310
UA-blw	<b>Bavarian</b>	DM33	1.2	0.0	0.0%	31.3	100.0%		
UA-blw	<b>Blair Mtn.</b>	DM65	1.2	0.0	0.0%	31.3	100.0%		
CC	<b>*Adit abo</b>	CC15B	1.0	0.0	0.0%	31.3	100.0%		
UA-blw	<b>Bradley tu</b>	DM54	1.0	0.0	0.0%	31.3	100.0%		
UA abv Eu	<b>Golden Fl</b>	DM27	0.8	0.0	0.0%	31.3	100.0%		
CC	<b>Mine 1/2 n</b>	CC10B	0.5	0.0	0.0%	31.3	100.0%		
CC	<b>Adit belov</b>	CC02G	0.4	0.0	0.0%	31.3	100.0%		
UA abv Eu	<b>Burrows IA</b>	17a	0.3	0.0	0.0%	31.3	100.0%		
UA abv Eu	<b>Little Ida</b>	DM14	0.3	0.0	0.0%	31.3	100.0%		
UA-blw	<b>Unknown DM</b>	38	0.2	0.0	0.0%	31.3	100.0%		
UA abv Eu	<b>Early Bird</b>	DM4	0.2	0.0	0.0%	31.3	100.0%		
UA abv Eu	<b>London MA</b>	07LM	0.2	0.0	0.0%	31.3	100.0%	\$0	\$0
UA-blw	<b>Green Mtr</b>	DM52	0.1	0.0	0.0%	31.3	100.0%		
UA abv Eu	<b>Toltec Mir</b>	DM29	0.1	0.0	0.0%	31.3	100.0%		
MC	<b>COLLAPSM</b>	22B	0.1	0.0	0.0%	31.3	100.0%		
UA abv Eu	<b>Burrows IA</b>	17b	0.1	0.0	0.0%	31.3	100.0%		
UA abv Eu	<b>London MA</b>	07LMS	0.1	0.0	0.0%	31.3	100.0%		
UA-blw	<b>King Solo</b>	DM59	0.1	0.0	0.0%	31.3	100.0%		
UA-blw	<b>Iowa</b>	DM62	0.1	0.0	0.0%	31.3	100.0%		
UA abv Eu	<b>Unknown DM</b>	1	0.0	0.0	0.0%	31.3	100.0%		
UA-blw	<b>Upper Mai</b>	0099-01	0.0	0.0	0.0%	31.3	100.0%		
UA abv Eu	<b>Prospect</b>	DM31	0.0	0.0	0.0%	31.3	100.0%		
UA-blw	<b>adit near t</b>	DM50	0.0	0.0	0.0%	31.3	100.0%		
UA-blw		0321-01	0.0	0.0	0.0%	31.3	100.0%		
UA-blw	<b>S side Eui</b>	0264-01	0.0	0.0	0.0%	31.3	100.0%		
UA abv Eu	<b>Bagley Tu</b>	A12	0.0	0.0	0.0%	31.3	100.0%	\$300	\$300
MC	<b>Ferrocret</b>	M13D	0.0	0.0	0.0%	31.3	100.0%	\$600	\$300
CC	<b>Porcupine</b>	CC38B	0.0	0.0	0.0%	31.3	100.0%	\$660	\$1,300
UA abv Eu	<b>Vermillion</b>	A16	0.0	0.0	0.0%	31.3	100.0%	\$660	\$1,300
CC	<b>Yukon Mir</b>	CC43C	0.0	0.0	0.0%	31.3	100.0%	\$720	\$1,600
CC	<b>Black Hav</b>	CC13C	0.0	0.0	0.0%	31.3	100.0%	\$730	\$1,900
CC	<b>Elk tunnel</b>	CC32	0.0	0.0	0.0%	31.3	100.0%	\$1,030	\$1,910
UA-blw	<b>Little Nati</b>	DM56	0.0	0.0	0.0%	31.3	100.0%	\$1,330	\$2,210
UA abv Eu	<b>Tom Moor</b>	DM22	0.0	0.0	0.0%	31.3	100.0%	\$1,330	\$2,210
UA-blw	<b>Auburn</b>	DM36	0.0	0.0	0.0%	31.3	100.0%	\$1,390	\$2,210
UA-blw	<b>Hamlet</b>	DM39	0.0	0.0	0.0%	31.3	100.0%	\$1,690	\$2,220
MC	<b>Little Dor</b>	M37	0.0	0.0	0.0%	31.3	100.0%	\$1,990	\$3,220
UA-blw	<b>Mighty McA</b>	69	0.0	0.0	0.0%	31.3	100.0%		
UA-blw	<b>Moonbear</b>	DM35	0.0	0.0	0.0%	31.3	100.0%		
UA-blw	<b>Forest Qu</b>	A41	0.0	0.0	0.0%	31.3	100.0%		

MC	<b>Imogene IM13B</b>	0.0	0.0	0.0%	31.3	100.0%
CC	<b>OccidentaCC13D</b>	0.0	0.0	0.0%	31.3	100.0%
UA abv Eu	<b>Treasure IA26B</b>	0.0	0.0	0.0%	31.3	100.0%
MC	<b>INDEPENIM21H</b>	0.0	0.0	0.0%	31.3	100.0%
MC	<b>Silver CroM09</b>	0.0	0.0	0.0%	31.3	100.0%
UA-blw	<b>Ben FrankDM32</b>	0.0	0.0	0.0%	31.3	100.0%
UA-blw	<b>Unknown DM37</b>	0.0	0.0	0.0%	31.3	100.0%
UA-blw	<b>Last ChanDM66</b>	0.0	0.0	0.0%	31.3	100.0%
UA-blw	<b>Innis TuniDM53</b>	0.0	0.0	0.0%	31.3	100.0%
UA-blw	<b>Hidden TrDM44</b>	0.0	0.0	0.0%	31.3	100.0%
UA-blw	<b>Little CasiDM73</b>	0.0	0.0	0.0%	31.3	100.0%
UA-blw	<b>Silver StaDM43</b>	0.0	0.0	0.0%	31.3	100.0%
UA-blw	<b>Oyama tuDM49</b>	0.0	0.0	0.0%	31.3	100.0%
UA-blw	<b>Argentine DM78</b>	0.0	0.0	0.0%	31.3	100.0%
MC	<b>U.S.Basin M07C</b>	0.0	0.0	0.0%	31.3	100.0%
UA-blw	<b>Emma MirDM47</b>	0.0	0.0	0.0%	31.3	100.0%
UA-blw	<b>Joseph N'DM75</b>	0.0	0.0	0.0%	31.3	100.0%
UA abv Eu	<b>Prairie DM8</b>	0.0	0.0	0.0%	31.3	100.0%
UA abv Eu	<b>Indian ChiDM28</b>	0.0	0.0	0.0%	31.3	100.0%
UA-blw	<b>Black PrirDM60</b>	0.0	0.0	0.0%	31.3	100.0%
UA-blw	<b>Valley ForDM57</b>	0.0	0.0	0.0%	31.3	100.0%
UA-blw	<b>Marcelle M0191-01</b>	0.0	0.0	0.0%	31.3	100.0%
UA-blw	<b>Ezra DM58</b>	0.0	0.0	0.0%	31.3	100.0%
UA-blw	<b>Midway TiDM74</b>	0.0	0.0	0.0%	31.3	100.0%
UA-blw	<b>Queen of DM71</b>	0.0	0.0	0.0%	31.3	100.0%
UA abv Eu	<b>Unknown DM30</b>	0.0	0.0	0.0%	31.3	100.0%
UA-blw	<b>Smuggler DM46</b>	0.0	0.0	0.0%	31.3	100.0%
UA-blw	<b>Esmerald:DM40</b>	0.0	0.0	0.0%	31.3	100.0%
UA-blw	<b>Jess MineDM77</b>	0.0	0.0	0.0%	31.3	100.0%
UA-blw	<b>Unknown DM72</b>	0.0	0.0	0.0%	31.3	100.0%
UA-blw	<b>Midway MDM34</b>	0.0	0.0	0.0%	31.3	100.0%
UA-blw	<b>above Bu0200-01</b>	0.0	0.0	0.0%	31.3	100.0%
UA abv Eu	<b>Riverside DM9</b>	0.0	0.0	0.0%	31.3	100.0%
UA-blw	<b>Upper Ma0098-01</b>	0.0	0.0	0.0%	31.3	100.0%
UA abv Eu	<b>London NDM5</b>	0.0	0.0	0.0%	31.3	100.0%
CC	<b>Red &amp; BoCC03C</b>	0.0	0.0	0.0%	31.3	100.0%
CC	<b>Henrietta CC24G</b>	0.0	0.0	0.0%	31.3	100.0%
CC	<b>Lark Mine CC24D</b>	0.0	0.0	0.0%	31.3	100.0%
CC	<b>Mine SoutCC02E</b>	0.0	0.0	0.0%	31.3	100.0%
CC	<b>Kansas CiCC30D</b>	0.0	0.0	0.0%	31.3	100.0%
CC	<b>Kansas CiCC30E</b>	0.0	0.0	0.0%	31.3	100.0%
MC	<b>Adit 103-NM27F</b>	0.0	0.0	0.0%	31.3	100.0%
UA abv Eu	<b>Upper CoA21D</b>	0.0	0.0	0.0%	31.3	100.0%
UA abv Eu	<b>Gold PrinA23a</b>	0.0	0.0	0.0%	31.3	100.0%
UA-blw	<b>Ridgeway 0199-01</b>	0.0	0.0	0.0%	31.3	100.0%
<b>Total</b>		14187.5	31.3			



CC	HandcockCC47B	NA
CC	AvalanchCC30K	NA
CC	Georgia GCC30L	NA
MC	Adit S. ChM10B	NA
MC	Paradise /M16D	NA
MC	Adit 104-VM27D	NA
MC	Bullion King	NA
MC	Burbank FM26B	NA
MC	Paradise /M16B	NA
MC	Ensle TunM26C	NA
MC	1st SW MIM18B	NA
MC	Adit E.of FIM27DE	NA
MC	Paradise /M16C	NA
MC	U.S. BasirM07D	NA
MC	Brooklyn -WBG10	NA
MC	ChatanooM11B	NA
MC	Colaps adM27E	NA
MC	Adit 103-VM27F	NA
MC	Lower S.PM23B	NA
UA abv	EuToltec Vei0212-01	NA
UA abv	EuLittle Ida IDM-11	NA
UA abv	EuLittle Ida IDM-13	NA
UA abv	EuN.of Cinn.0184-01	NA
UA abv	EuMiddle To 0218-01	NA
UA abv	EuBurrows c0088-01	NA
UA abv	EuN.of Cinn.0184-02	NA
UA abv	EuAdit oppo 0169-01	NA
UA-blw	Lower RaiDM69	NA
UA-blw	Kitti MackDM68	NA
UA-blw	ShenandoDM55	NA
UA-blw	Upper lowDM61	NA
UA-blw	ChampionDM76	NA
UA-blw	SF EurekDM0207-01	NA
UA-blw	ProgressiDM42	NA
UA-blw	Adit adj. F0164-01	NA
UA-blw	Little CasiDM73	NA
UA-blw	Adit W. &0079-01	NA
UA-blw	Adit 1/8mi0024-01	NA
UA-blw	Upper Mir0025-02	NA
UA-blw	Little MauDM41	NA
UA-blw	Adit 3/4 m0025-01	NA

ts

Reduction per technology:

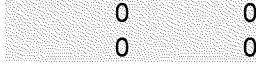
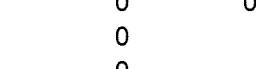
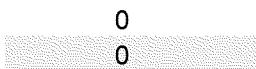
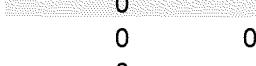
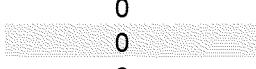
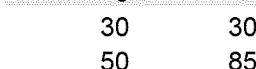
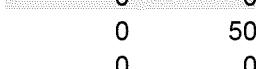
Bulkhead = 50%

Passive Treatment = 30%

Active = 85%

Phase 1 costs per site	Phase 2 Costs per site	%Reductions	Load Removed in #'s/day			
Phase 1	Phase 2	Phase 1	Phase 2	Phase 1	Cumulative phase 1	Phase 2
60	300	50	50	14.13	14.13	14.13
1000	300	80	50	0.56	14.69	0.35
60	50	50	50	0.19	14.87	0.19
0	300	30	85	0.09	14.97	0.26
300	1000	50	50	0.12	15.09	0.12
300	300	30	50	0.06	15.14	0.10
60	1000	0	50	0.00	15.14	0.09
300	300	50	30	0.06	15.21	0.04
300	50	50	50	0.04	15.25	0.04
10	300	30	50	0.02	15.27	0.04
	0	0	0	0.00	15.27	0.00
300	300	50	50	0.03	15.30	0.03
300	300	50	80	0.03	15.33	0.04
60	1000	0	50	0.00	15.33	0.03
300	1000	50	30	0.03	15.35	0.02
10	300	0	50	0.00	15.35	0.02
300	300	50	50	0.02	15.37	0.02
300	300	30	50	0.01	15.38	0.01
300	50	50	50	0.01	15.40	0.01
60	300	30	50	0.01	15.40	0.01
10	300	0	50	0.00	15.40	0.01
300	300	50	50	0.01	15.42	0.01
0	0	0	0	0.00	15.42	0.00
300	1000	50	90	0.01	15.43	0.02
60	1000	30	50	0.01	15.43	0.01
60	300	30	50	0.01	15.44	0.01
	0	0	0	0.00	15.44	0.00
60	300	50	50	0.01	15.44	0.01
1000	0	50	50	0.01	15.45	0.01
60	1000	30	85	0.00	15.45	0.01
60	300	50	80	0.01	15.46	0.01
300	300	30	50	0.00	15.46	0.00
	50	50	50	0.00	15.47	0.00
	30	50	50	0.00	15.47	0.00
	50	50	50	0.00	15.47	0.00
300	300	30	50	0.00	15.47	0.00
60	300	30	50	0.00	15.48	0.00

		50	50	0.00	15.48	0.00
60	300	30	50	0.00	15.48	0.00
60		50	50	0.00	15.48	0.00
		50	50	0.00	15.48	0.00
		0	50	0.00	15.48	0.00
		0	0	0.00	15.48	0.00
		0	0	0.00	15.48	0.00
		0	0	0.00	15.48	0.00
0		0	0	0.00	15.48	0.00
		50	0	0.00	15.49	0.00
		0	0	0.00	15.49	0.00
		30	50	0.00	15.49	0.00
		30	50	0.00	15.49	0.00
		50	50	0.00	15.49	0.00
		0	50	0.00	15.49	0.00
		0	0	0.00	15.49	0.00
		0	0	0.00	15.49	0.00
		30	30	0.00	15.49	0.00
		0	0	0.00	15.49	0.00
0		0	0	0.00	15.49	0.00
		30	30	0.00	15.49	0.00
		0	0	0.00	15.49	0.00
		0	0	0.00	15.49	0.00
		0	0	0.00	15.49	0.00
		0	0	0.00	15.49	0.00
		50	50	0.00	15.49	0.00
		0	0	0.00	15.49	0.00
		0	0	0.00	15.49	0.00
		0	0	0.00	15.49	0.00
		0	0	0.00	15.49	0.00
300	300	30	50	0.00	15.49	0.00
300		50	50	0.00	15.49	0.00
60	1000	30	50	0.00	15.49	0.00
0		0	0	0.00	15.49	0.00
60	300	50	50	0.00	15.49	0.00
10	300	0	50	0.00	15.49	0.00
300	10	30	50	0.00	15.49	0.00
300	300	30	50	0.00	15.49	0.00
0		0	0	0.00	15.49	0.00
60		30	0	0.00	15.49	0.00
300	10	30	30	0.00	15.49	0.00
300	1000	50	85	0.00	15.49	0.00
		0	0	0.00	15.49	0.00
		50	50	0.00	15.49	0.00
		85	85	0.00	15.49	0.00

50	50	0.00	15.49	0.00
0	50	0.00	15.49	0.00
0	50	0.00	15.49	0.00
50	50	0.00	15.49	0.00
0	0	0.00	15.49	0.00
50	50	0.00	15.49	0.00
30	30	0.00	15.49	0.00
0	0	0.00	15.49	0.00
		0.00	15.49	0.00
0	0	0.00	15.49	0.00
30		0.00	15.49	0.00
		0.00	15.49	0.00
0	0	0.00	15.49	0.00
		0.00	15.49	0.00
0	0	0.00	15.49	0.00
0		0.00	15.49	0.00
		0.00	15.49	0.00
0	0	0.00	15.49	0.00
0		0.00	15.49	0.00
		0.00	15.49	0.00
0	0	0.00	15.49	0.00
		0.00	15.49	0.00
0	0	0.00	15.49	0.00
		0.00	15.49	0.00
0	0	0.00	15.49	0.00
		0.00	15.49	0.00
0	0	0.00	15.49	0.00
		0.00	15.49	0.00
30	30	0.00	15.49	0.00
50	85	0.00	15.49	0.00
50	50	0.00	15.49	0.00
0	0	0.00	15.49	0.00
0	0	0.00	15.49	0.00
		0.00	15.49	0.00
0	0	0.00	15.49	0.00
		0.00	15.49	0.00
0	0	0.00	15.49	0.00
		0.00	15.49	0.00
		0.00	15.49	0.00
		0.00	15.49	0.00
		0.00	15.49	0.00

0	50
30	30
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0	0
30	50
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0	0
0	0
50	85
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
30	30
0	
0	
0	
0	

**CUMULATIVE ADIT LOADING, REDUCTIONS AND COSTS - CADMIUM**

(0 values = below detection limit)

2/21/2001

Basin	ARSG Designation NEW DESC	Site #	Low Flow Loading				Reduction C		
			Cd value (grams/d)	Cd value (lbs/d)	Adit Loading	Percent of Total	Cumulative Loading (lbs/d)	Cumulative reductions	
								Cum. Costs phase 1 x \$1000	Cum. Cost phase 1+2 x \$1000
MC	Kohler adit f	M02K	111.6	0.2	50.3%	0.2	50.3%	\$60	\$360
CC	Gold King			0.2					
CC	Red & Bonita			0.1					
CC	Mogul			0.0					
CC	Silver Ledge	CC14	12.4	0.0	5.6%	0.3	56.0%	\$360	\$960
CC	Mogul	CC02D	7.6	0.0	3.4%	0.3	59.4%	\$1,360	\$2,260
UA abv Eu	Columbus	DM20	7.6	0.0	3.4%	0.3	62.8%	\$1,660	\$2,860
MC	North Star adit	M31	7.4	0.0	3.3%	0.3	66.2%	\$1,960	\$4,160
MC	Bandora Min	M24	7.0	0.0	3.2%	0.3	69.4%	\$2,020	\$5,220
UA-blw	Pride of the A	A50	6.1	0.0	2.8%	0.4	72.1%	\$2,080	\$5,580
UA abv Eu	Vermillion	MDM17	5.3	0.0	2.4%	0.4	74.5%	\$2,380	\$5,880
UA abv Eu	N side of Cal	0219-01	4.0	0.0	1.8%	0.4	76.3%	\$2,440	\$6,240
UA-blw	Aspen	A63a	3.7	0.0	1.7%	0.4	78.0%	\$2,500	\$7,300
MC	Brooklyn Min	M12C	3.6	0.0	1.6%	0.4	79.6%	\$2,800	\$7,900
MC	Ferrocrite MM	M13D	3.4	0.0	1.5%	0.4	81.1%	\$3,100	\$8,200
CC	Lewis propre	CC01P	2.9	0.0	1.3%	0.4	82.4%	\$3,160	\$8,260
MC	Upper Bonne	M21F	2.8	0.0	1.3%	0.4	83.7%	\$3,460	\$9,560
UA abv Eu	Bagley Tunn	A12	2.7	0.0	1.2%	0.4	84.9%	\$3,760	\$10,160
CC	Anglo-Saxor	CC37	2.7	0.0	1.2%	0.4	86.1%	\$3,820	\$10,520
CC	Grand Mogul	CC01C	2.5	0.0	1.1%	0.4	87.3%	\$3,880	\$11,580
UA-blw	Old Hundred	A49	2.3	0.0	1.0%	0.4	88.3%	\$3,880	\$11,580
MC	Lower Bonne	M21D	1.7	0.0	0.8%	0.4	89.1%	\$4,180	\$12,180
UA abv Eu	Silver Wing	A29	1.7	0.0	0.8%	0.4	89.8%	\$4,180	\$12,480
UA abv Eu	Senator	DM24	1.6	0.0	0.7%	0.4	90.5%	\$4,480	\$13,080
UA abv Eu	Lower Come	A21A	1.3	0.0	0.6%	0.4	91.1%	\$4,490	\$13,390
MC	INDEPENDENCE	M21H	1.3	0.0	0.6%	0.4	91.7%		
CC	Unnamed adit between	Mogul Mi	0.0	0.0	0.6%	0.5	92.3%	\$4,550	\$13,450
CC	Queen Ann	CC01A	1.2	0.0	0.6%	0.5	92.8%	\$4,560	\$13,760
MC	Bonner Mine	M21B	1.2	0.0	0.5%	0.5	93.3%	\$4,860	\$14,360
MC	Adit 104-W EM	27D	1.1	0.0	0.5%	0.5	93.8%	\$4,860	\$14,360
UA abv Eu	Vermillion	TIA16	1.0	0.0	0.4%	0.5	94.2%	\$4,860	\$14,360
UA abv Eu	Lucky Jack	A02B	0.9	0.0	0.4%	0.5	94.7%	\$4,920	\$14,720
CC	Black Hawk CC	13C	0.9	0.0	0.4%	0.5	95.1%	\$4,930	\$15,030
UA abv Eu	London Min	A07LM	0.9	0.0	0.4%	0.5	95.5%	\$4,930	\$15,030
CC	Monarch Mir	CC38C	0.8	0.0	0.4%	0.5	95.8%	\$4,940	\$15,340
MC	Lower Bonne	M21	0.8	0.0	0.4%	0.5	96.2%	\$4,940	\$15,340
UA abv Eu	Mountain Qu	A19a	0.8	0.0	0.3%	0.5	96.5%	\$5,240	\$15,940
MC	Junction Mir	M02B	0.7	0.0	0.3%	0.5	96.9%	\$5,540	\$17,240

UA-blw	Royal Tiger	DM63	0.6	0.0	0.3%	0.5	97.1%	\$5,840	\$17,840
CC	Porcupine	A CC38B	0.5	0.0	0.2%	0.5	97.4%	\$5,900	\$18,900
UA-blw	Forest Queen	A41	0.5	0.0	0.2%	0.5	97.6%		
CC	Evelyn Mine	CC21C	0.5	0.0	0.2%	0.5	97.8%	\$1,000	\$1,000
UA abv	EuSound Dem	DM26	0.4	0.0	0.2%	0.5	98.0%	\$1,060	\$1,360
CC	Joe & Johns	CC25C	0.4	0.0	0.2%	0.5	98.2%	\$1,360	\$1,960
UA-blw	Mighty Mona	A69	0.4	0.0	0.2%	0.5	98.3%		
UA-blw	Little Nation	DM56	0.3	0.0	0.2%	0.5	98.5%	\$300	\$600
CC	Big Colorado	CC16C	0.3	0.0	0.1%	0.5	98.6%		
UA abv	EuLittle Chief	DM3	0.3	0.0	0.1%	0.5	98.8%		
UA-blw	Pittsburgh	MA71	0.3	0.0	0.1%	0.5	98.9%	\$0	\$0
CC	Mammoth tu	CC29B	0.2	0.0	0.1%	0.5	99.0%	\$60	\$360
UA abv	EuTom Moore	DM22	0.2	0.0	0.1%	0.5	99.1%	\$60	\$360
MC	Upper Brown	M12F	0.2	0.0	0.1%	0.5	99.2%		
CC	Adit below a	CC30J	0.2	0.0	0.1%	0.5	99.3%		
MC	Little Dora	M37	0.2	0.0	0.1%	0.5	99.3%	\$300	\$1,300
UA abv	EuGolden Flee	DM27	0.2	0.0	0.1%	0.5	99.4%		
UA abv	EuBurrows Min	A17b	0.1	0.0	0.1%	0.5	99.5%		
UA-blw	South Iowa	DM79	0.1	0.0	0.1%	0.5	99.5%		
MC	Boston	M36	0.1	0.0	0.1%	0.5	99.6%		
UA abv	EuBurrows Min	A17a	0.1	0.0	0.1%	0.5	99.7%		
UA-blw	Moonbean	DM35	0.1	0.0	0.1%	0.5	99.7%		
UA-blw	Green Mtn.	DM52	0.1	0.0	0.1%	0.5	99.8%		
UA-blw	Bradley tunn	DM54	0.1	0.0	0.0%	0.5	99.8%		
CC	Adit below CCC	02G	0.1	0.0	0.0%	0.5	99.8%		
MC	COLLAPSE	DM22B	0.1	0.0	0.0%	0.5	99.9%		
UA abv	EuSilver Queer	DM25	0.0	0.0	0.0%	0.5	99.9%		
UA-blw	Ben Franklin	DM32	0.0	0.0	0.0%	0.5	99.9%		
UA abv	EuLittle Ida	DM14	0.0	0.0	0.0%	0.5	99.9%		
UA abv	EuUnknown Pr	DM1	0.0	0.0	0.0%	0.5	99.9%		
UA-blw	Hidden Treas	DM44	0.0	0.0	0.0%	0.5	99.9%		
UA abv	EuLondon Mine	A07LMS	0.0	0.0	0.0%	0.5	100.0%		
UA abv	EuProspect Lo	DM31	0.0	0.0	0.0%	0.5	100.0%		
UA-blw	Iowa	DM62	0.0	0.0	0.0%	0.5	100.0%		
UA abv	EuEarly Bird	DM4	0.0	0.0	0.0%	0.5	100.0%		
UA-blw	Bavarian	DM33	0.0	0.0	0.0%	0.5	100.0%		
UA-blw	Queen of Ma	DM71	0.0	0.0	0.0%	0.5	100.0%		
UA abv	EuPrairie	DM8	0.0	0.0	0.0%	0.5	100.0%		
UA abv	EuIndian Chief	DM28	0.0	0.0	0.0%	0.5	100.0%		
UA-blw	Little Casino	DM73	0.0	0.0	0.0%	0.5	100.0%		
CC	*Adit above ICC	15B	0.0	0.0	0.0%	0.5	100.0%		
UA-blw	King Solomon	DM59	0.0	0.0	0.0%	0.5	100.0%		
UA-blw	S side Eurek	0264-01	0.0	0.0	0.0%	0.5	100.0%		
MC	Paradise Adit	M16	0.0	0.0	0.0%	0.5	100.0%	\$60	\$1,060
CC	Yukon Mine	CC43C	0.0	0.0	0.0%	0.5	100.0%	\$120	\$1,420
MC	Ruby Trust a	M17B	0.0	0.0	0.0%	0.5	100.0%	\$420	\$1,720
CC	Elk tunnel	CC32	0.0	0.0	0.0%	0.5	100.0%	\$720	\$2,030
UA-blw	Auburn	DM36	0.0	0.0	0.0%	0.5	100.0%	\$780	\$2,090
UA-blw	Hamlet	DM39	0.0	0.0	0.0%	0.5	100.0%	\$1,080	\$2,400

MC	Anvil Mtn.adM33B	0.0	0.0	0.0%	0.5	100.0%
MC	Imogene MirM13B	0.0	0.0	0.0%	0.5	100.0%
CC	Occidental CC13D	0.0	0.0	0.0%	0.5	100.0%
UA abv Eu	Treasure MoA26B	0.0	0.0	0.0%	0.5	100.0%
MC	Silver CrowrM09	0.0	0.0	0.0%	0.5	100.0%
UA-blw	Unknown DrDM37	0.0	0.0	0.0%	0.5	100.0%
UA-blw	Last ChanceDM66	0.0	0.0	0.0%	0.5	100.0%
UA-blw	Unknown DrDM38	0.0	0.0	0.0%	0.5	100.0%
UA-blw	Innis TunnelDM53	0.0	0.0	0.0%	0.5	100.0%
CC	Mine 1/2 milCC10B	0.0	0.0	0.0%	0.5	100.0%
UA-blw	Silver Star DM43	0.0	0.0	0.0%	0.5	100.0%
UA-blw	Oyama tunnDM49	0.0	0.0	0.0%	0.5	100.0%
UA-blw	Argentine tuDM78	0.0	0.0	0.0%	0.5	100.0%
MC	U.S.Basin #2M07C	0.0	0.0	0.0%	0.5	100.0%
UA-blw	Emma Mine DM47	0.0	0.0	0.0%	0.5	100.0%
UA-blw	Joseph Neff DM75	0.0	0.0	0.0%	0.5	100.0%
UA-blw	Black PrinceDM60	0.0	0.0	0.0%	0.5	100.0%
UA-blw	Valley ForgeDM57	0.0	0.0	0.0%	0.5	100.0%
UA-blw	Marcelle Min0191-01	0.0	0.0	0.0%	0.5	100.0%
UA-blw	Ezra DM58	0.0	0.0	0.0%	0.5	100.0%
UA-blw	Midway TuniDM74	0.0	0.0	0.0%	0.5	100.0%
CC	River right a ?	0.0	0.0	0.0%	0.5	100.0%
UA abv Eu	Unknown Mi DM30	0.0	0.0	0.0%	0.5	100.0%
UA-blw	Smuggler DM46	0.0	0.0	0.0%	0.5	100.0%
UA-blw	Esmeralda NDM40	0.0	0.0	0.0%	0.5	100.0%
UA-blw	Jess Mine DM77	0.0	0.0	0.0%	0.5	100.0%
UA-blw	Unknown DrDM72	0.0	0.0	0.0%	0.5	100.0%
UA-blw	Midway MinDM34	0.0	0.0	0.0%	0.5	100.0%
UA-blw	Upper Maggi0099-01	0.0	0.0	0.0%	0.5	100.0%
UA-blw	adit near topDM50	0.0	0.0	0.0%	0.5	100.0%
UA-blw	above Bucke0200-01	0.0	0.0	0.0%	0.5	100.0%
UA abv Eu	Toltec Mine DM29	0.0	0.0	0.0%	0.5	100.0%
UA-blw	0321-01	0.0	0.0	0.0%	0.5	100.0%
UA abv Eu	Riverside Mi DM9	0.0	0.0	0.0%	0.5	100.0%
UA-blw	Upper Maggi0098-01	0.0	0.0	0.0%	0.5	100.0%
UA abv Eu	London MinDM5	0.0	0.0	0.0%	0.5	100.0%
		0.0	0.0	0.0%	0.5	100.0%
CC	Red & Bonit;CC03C	0.0	0.0	0.0%	0.5	100.0%
CC	Henrietta 7 MCC24G	0.0	0.0	0.0%	0.5	100.0%
CC	Lark Mine CC24D	0.0	0.0	0.0%	0.5	100.0%
CC	Mine South (CC02E	0.0	0.0	0.0%	0.5	100.0%
CC	Kansas City CC30D	0.0	0.0	0.0%	0.5	100.0%
CC	Kansas City CC30E	0.0	0.0	0.0%	0.5	100.0%
MC	Adit 103-NW M27F	0.0	0.0	0.0%	0.5	100.0%
UA abv Eu	Upper ComeA21D	0.0	0.0	0.0%	0.5	100.0%
UA abv Eu	Gold Prince A23a	0.0	0.0	0.0%	0.5	100.0%
UA-blw	Blair Mtn. TuDM65	0.0	0.0	0.0%	0.5	100.0%
UA-blw	Ridgeway Mi0199-01	0.0	0.0	0.0%	0.5	100.0%
Total		221.6	0.5	100.0%		

CC	<b>Small dump ?</b>	0.0
CC	<b>Hancock G</b> CC47B	NA
CC	<b>Avalanche MCC30K</b>	NA
CC	<b>Georgia Gul</b> CC30L	NA
MC	<b>Adit S. Chatt</b> M10B	NA
MC	<b>Paradise Adi</b> M16D	NA
MC	<b>Adit 104-W EM</b> 27D	NA
MC	<b>Bullion King</b>	NA
MC	<b>Burbank Por</b> M26B	NA
MC	<b>Paradise Adi</b> M16B	NA
MC	<b>Ensle Tunne</b> M26C	NA
MC	<b>1st SW MF NM</b> 18B	NA
MC	<b>Adit E.of Bu</b> M27DE	NA
MC	<b>Paradise Adi</b> M16C	NA
MC	<b>U.S. Basin # M</b> 07D	NA
MC	<b>Brooklyn sli</b> WBG10	NA
MC	<b>Chatanooga M</b> 11B	NA
MC	<b>Colaps adit I</b> M27E	NA
MC	<b>Adit 103-W EM</b> 27F	NA
MC	<b>Lower S.Parl</b> M23B	NA
UA-abv	<b>EuToltec Vein</b> 0212-01	NA
UA-abv	<b>EuLittle Ida Mir</b> DM-11	NA
UA-abv	<b>EuLittle Ida Mir</b> DM-13	NA
UA-abv	<b>EuN.of Cinn. P</b> 0184-01	NA
UA-abv	<b>EuMiddle Tolte</b> 0218-01	NA
UA-abv	<b>EuBurrows or I</b> 0088-01	NA
UA-abv	<b>EuN.of Cinn. P</b> 0184-02	NA
UA-abv	<b>EuAdit opposit</b> 0169-01	NA
UA-blw	<b>Lower Rand:DM</b> 69	NA
UA-blw	<b>Kitti Mack DM</b> 68	NA
UA-blw	<b>ShenandoahDM</b> 55	NA
UA-blw	<b>Upper Iowa IDM</b> 61	NA
UA-blw	<b>Champion MDM</b> 76	NA
UA-blw	<b>SF Eureka; E</b> 0207-01	NA
UA-blw	<b>Progressive DM</b> 42	NA
UA-blw	<b>Adit adj. Por</b> 0164-01	NA
UA-blw	<b>Little CasinoDM</b> 73	NA
UA-blw	<b>Adit W. &amp;S.</b> 0079-01	NA
UA-blw	<b>Adit 1/8mi. S</b> 0024-01	NA
UA-blw	<b>Upper Minni</b> 0025-02	NA
UA-blw	<b>Little Maud DM</b> 41	NA
UA-blw	<b>Adit 3/4 mi. S</b> 0025-01	NA

osts

Reduction per technology:

Bulkhead = 50%

Passive Treatment = 30%

Active = 85%

Phase 1 costs per site	Phase 2 Costs per site	%Reductions Phase 1	Phase 2	Load Removed in #'s/day Phase 1	Cumulative Phase 2	Phase 1
60	300	50	50	0.12	0.12	0.12
300	300	50	50	0.01	0.14	0.01
1000	300	80	50	0.01	0.15	0.01
300	300	50	30	0.01	0.16	0.01
300	1000	50	50	0.01	0.17	0.01
60	1000	30	50	0.00	0.17	0.01
60	300	30	50	0.00	0.18	0.01
300		50	50	0.01	0.18	0.01
60	300	30	50	0.00	0.18	0.00
60	1000	30	85	0.00	0.19	0.01
300	300	30	50	0.00	0.19	0.00
300		50	50	0.00	0.19	0.00
60		50	50	0.00	0.20	0.00
300	1000	50	90	0.00	0.20	0.01
300	300	30	50	0.00	0.20	0.00
60	300	30	50	0.00	0.20	0.00
60	1000	0	50	0.00	0.20	0.00
0	0	0	0	0.00	0.20	0.00
300	300	30	50	0.00	0.20	0.00
0	300	30	85	0.00	0.20	0.00
300	300	30	50	0.00	0.21	0.00
10	300	0	50	0.00	0.21	0.00
		50	50	0.00	0.21	0.00
60		50	50	0.00	0.21	0.00
10	300	0	50	0.00	0.21	0.00
300	300	50	50	0.00	0.21	0.00
	0	0	0	0.00	0.21	0.00
0	0	0	0	0.00	0.21	0.00
60	300	50	80	0.00	0.21	0.00
10	300	0	50	0.00	0.21	0.00
0	0	0	0	0.00	0.21	0.00
10	300	30	50	0.00	0.21	0.00
	0	0	0	0.00	0.21	0.00
300	300	50	50	0.00	0.21	0.00
300	1000	50	30	0.00	0.21	0.00

300	300	50	80	0.00	0.21	0.00
60	1000	30	50	0.00	0.21	0.00
		85	85	0.00	0.21	0.00
1000	0	50	50	0.00	0.22	0.00
60	300	50	50	0.00	0.22	0.00
300	300	30	50	0.00	0.22	0.00
		0	0	0.00	0.22	0.00
300	300	30	50	0.00	0.22	0.00
		50	50	0.00	0.22	0.00
		50	50	0.00	0.22	0.00
0		0		0.00	0.22	0.00
60	300	30	50	0.00	0.22	0.00
0		0		0.00	0.22	0.00
		30	50	0.00	0.22	0.00
		0	50	0.00	0.22	0.00
300	1000	50	85	0.00	0.22	0.00
		50	50	0.00	0.22	0.00
		0	0	0.00	0.22	0.00
		50	50	0.00	0.22	0.00
		0		0.00	0.22	0.00
		0	0	0.00	0.22	0.00
		50	50	0.00	0.22	0.00
		30	30	0.00	0.22	0.00
		30	50	0.00	0.22	0.00
		0		0.00	0.22	0.00
		0	0	0.00	0.22	0.00
		50	50	0.00	0.22	0.00
		50	50	0.00	0.22	0.00
		0	0	0.00	0.22	0.00
		50	50	0.00	0.22	0.00
		0	0	0.00	0.22	0.00
		0	0	0.00	0.22	0.00
		0	0	0.00	0.22	0.00
		0	0	0.00	0.22	0.00
		0	0	0.00	0.22	0.00
		0	0	0.00	0.22	0.00
		0	0	0.00	0.22	0.00
		0	0	0.00	0.22	0.00
		0	0	0.00	0.22	0.00
60	1000	0	50	0.00	0.22	0.00
60	300	50	50	0.00	0.22	0.00
300		50	50	0.00	0.22	0.00
300	10	30	50	0.00	0.22	0.00
60		30	0	0.00	0.22	0.00
300	10	30	30	0.00	0.22	0.00



		0.00	0.22	0.00
		0.00	0.22	0.00
0	?	0.00	0.22	
0	50			
30	30			
0	50			
30	50			
0	0			
0	0			
30	50			
0	50			
0	50			
0	0			
0	0			
0	?			
0	0			
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0	0			
50	85			
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0	0			
0	0			
0	0			
0	0			
0	0			
0	0			
0	0			
0	0			
0	0			
30	30			
0				
0				
0				
0				